

14.6

Advanced graphs

ADVANCED

Match each of the equations below with its correct graph. Graph **A** is $y=f(x)$.
For questions 12 to 15, write the coordinates of the points of intersection and check by substitution.

1 $y = -f(x)$

2 $y = f(x) + 2$

3 $y = \frac{3}{2}f(x)$

4 $y = 2f(x) - 1$

5 $y = x^3$

6 $y = (x + 3)^3$

7 $(x - 2)^2 + (y + 1)^2 = 4$

8 $(x + 1)^2 + (y - 2)^2 = 16$

9 $y = x(x - 1)(x + 2)$

10 $y = (x + 1)(x - 2)(x - 1)$

11 $y = (x^2 - 1)(x + 2)$

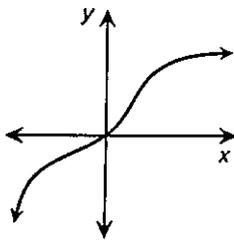
12 $x^2 + y^2 = 25$ and $y = 1 - x$

13 $y = -x^2$ and $y = x - 2$

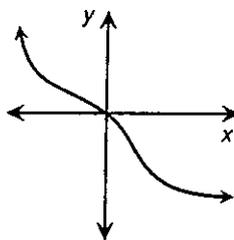
14 $xy = 2$ and $x - 2y - 3 = 0$

15 $2y = x^2 - 4$ and $x + 2y - 2 = 0$

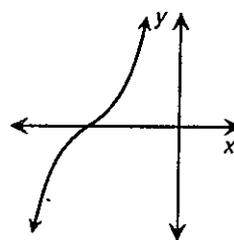
A $y = f(x)$



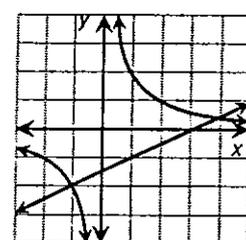
E _____



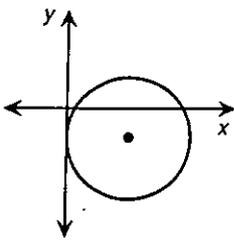
I _____



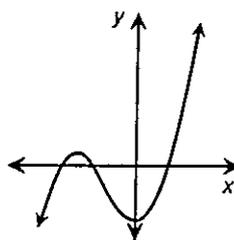
M _____



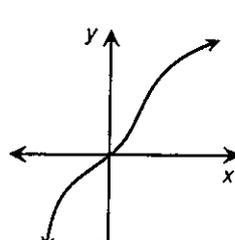
B _____



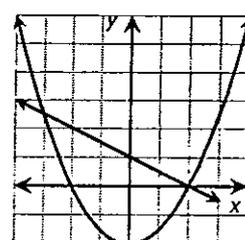
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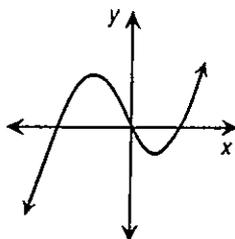
J _____



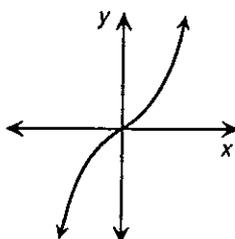
N _____



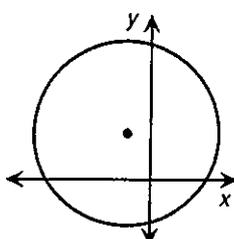
C _____



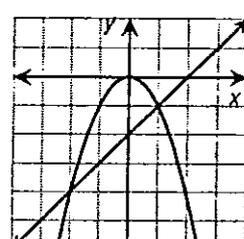
G _____



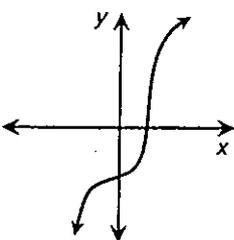
K _____



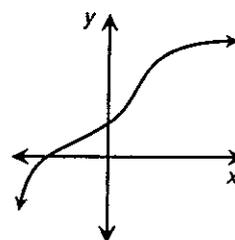
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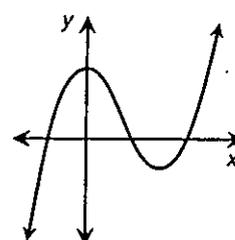
D _____



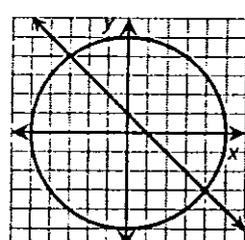
H _____



L _____



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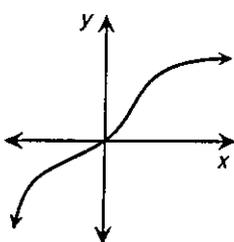
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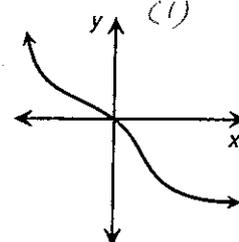
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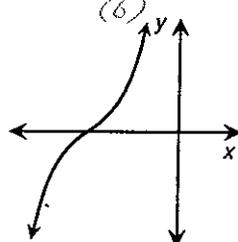
A $y = f(x)$



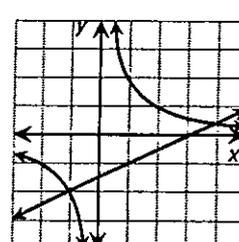
E $y = -f(x)$



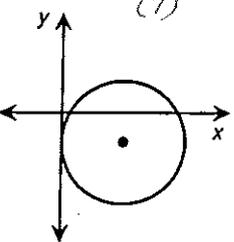
I $y = (x+3)^3$



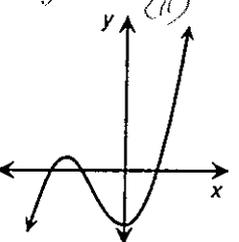
M (11) $(-1, -2); (4, \frac{1}{2})$



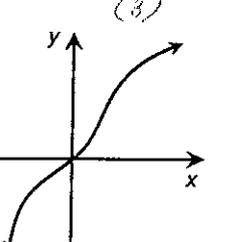
B $(x-2)^2 + (y+1)^2 = 4$



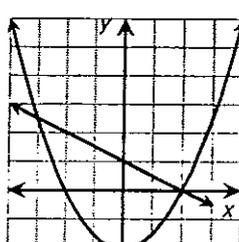
F $y = (x^2 - 1)(x + 2)$



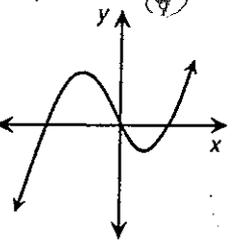
J $y = \frac{3}{2}f(x)$



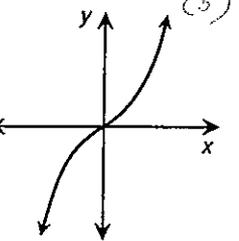
N (15) $(-3, 2\frac{1}{2}); (2, 0)$



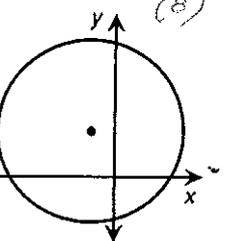
C $y = x(x-1)(x+2)$



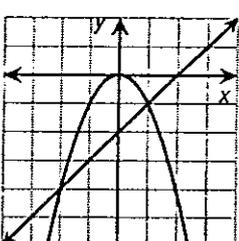
G $y = x^3$



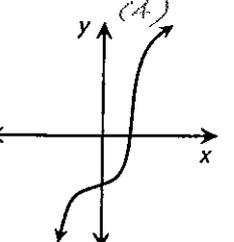
K $(x+1)^2 + (y-2)^2 = 16$



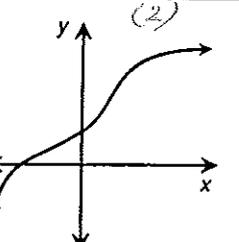
O (13) $(-2, -4); (1, -1)$



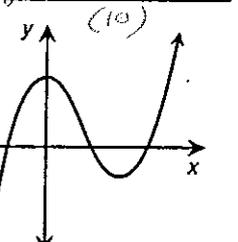
D $y = 2f(x) - 1$



H $y = f(x) + 2$



L $y = (x+1)(x-2)(x-1)$



P (12) $(4, -3); (-3, 4)$

