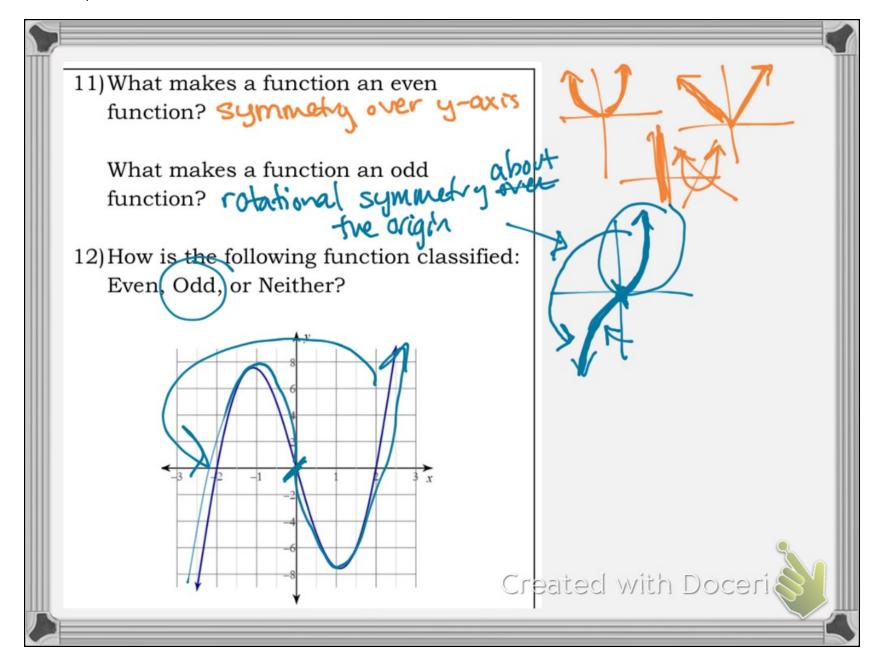
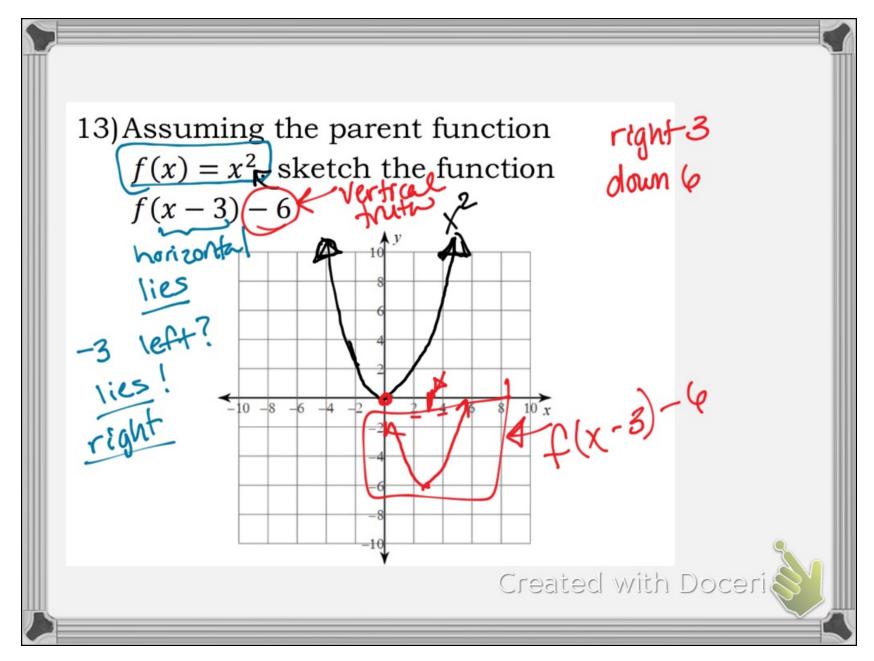


- 9) Identify the Interval(s) of Increasing:

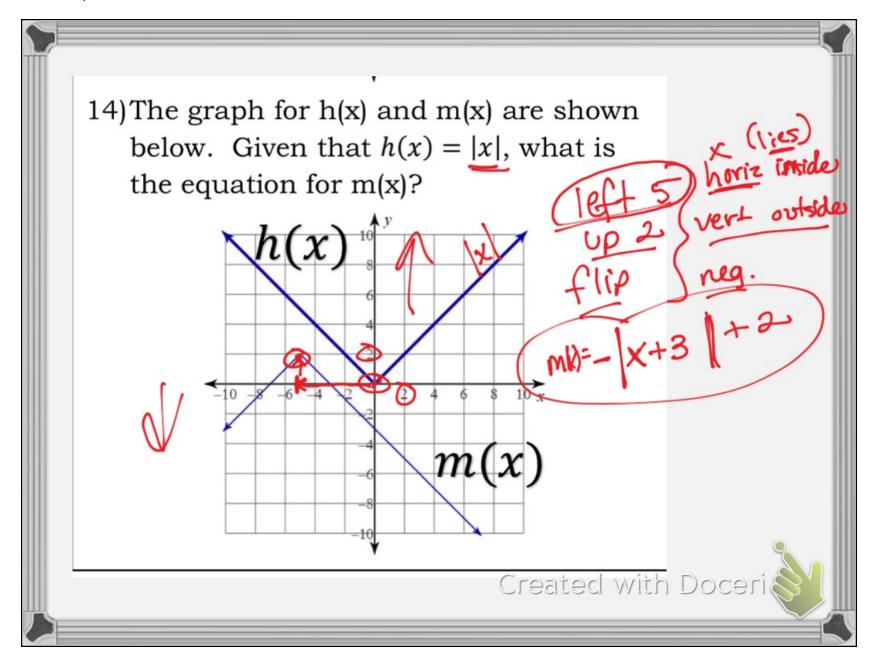
10) As $x \to \infty$, $y \to \infty$

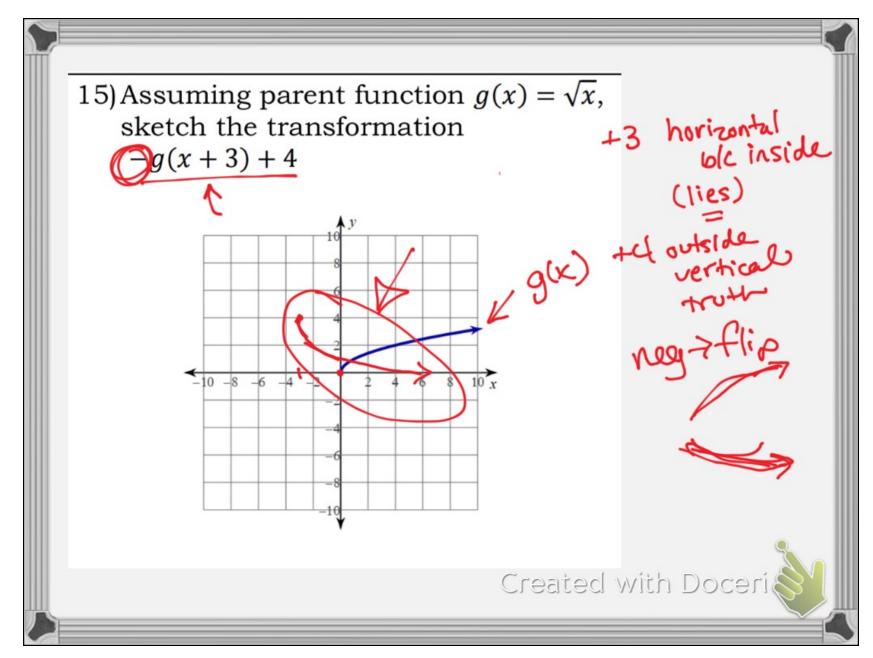
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16) Determine the degree of the following polynomial:

$$h(x) = x^3 + 5x^2 - 2x + 4$$

17) Determine the degree of the following polynomial:

$$p(x) = -7x^{9} 5x^{6} + 4x^{3} + 2x - 3$$

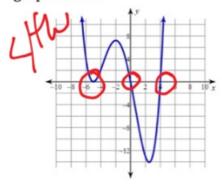
18) Determine the degree of the following polynomial:

$$k(x) = (x+2)^3 (x-4)^2 (x-2)$$

19) Determine the degree of the following polynomial:

$$b(x) = (x - 6\sqrt{2}x + 5)$$

20) What could the degree be for the graph below?

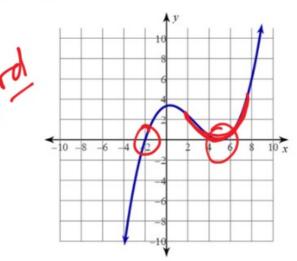


highest exponent on x

X-intercepts? (4,0) (0,0) (-5,0) (4,0) (0,0)

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21) What could the degree be for the graph below?



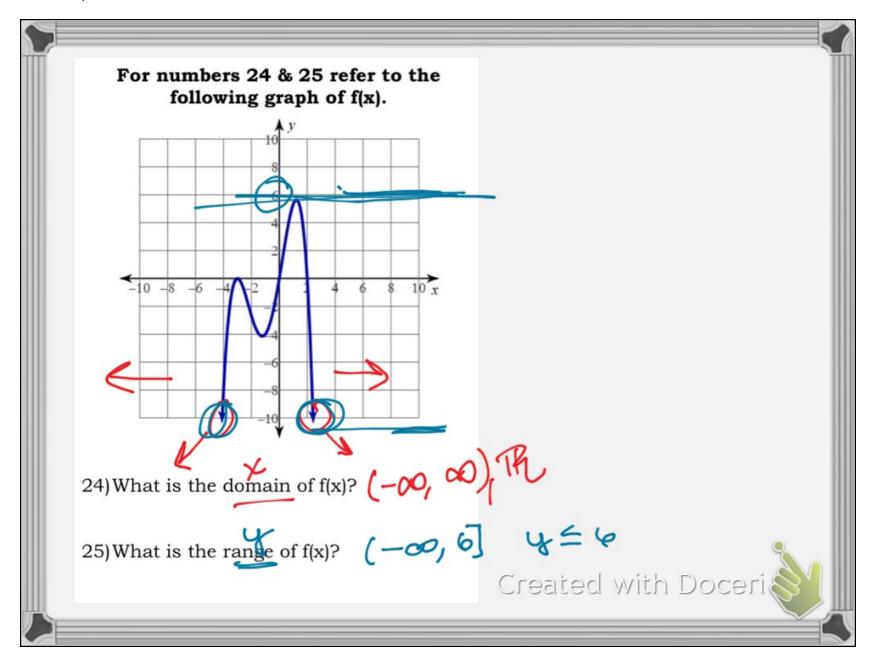
x-int. (-20) (50) ce 2 hourst 2

22) Determine the y-intercept of the following polynomial:

$$h(x) = 8x^5 + 2x^3 - 4x + 7$$

$$k(x) = (x + 2)^2(x - 3)$$

23) Determine the y-intercept of the following polynomial: (0_1-12) $k(x) = (x+2)^2(x-3)$ $-2\cdot -3$ -12 $k(x) = (x+2)^2(x-3)$



26) Determine the x-intercept(s) of the following polynomial:

$$k(x) = (x+2)\frac{3}{2}(x-4)^{2}(x-2)$$
 $(-2,0)$ $(4,0)$ $(2,0)$

27) Determine the zero(s) of the following polynomial:

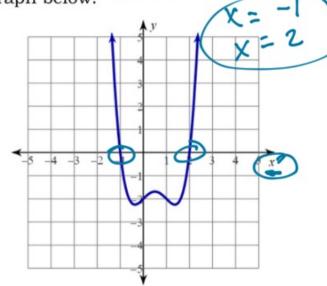
$$k(x) = (x+2)^2(x-3)$$

$$k(x) = (x+2)^{2}(x-3)$$

$$x = -2, x = 3$$

$$x = -2, x = 3$$

28) Determine the zero(s) of f(x) from its graph below.



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