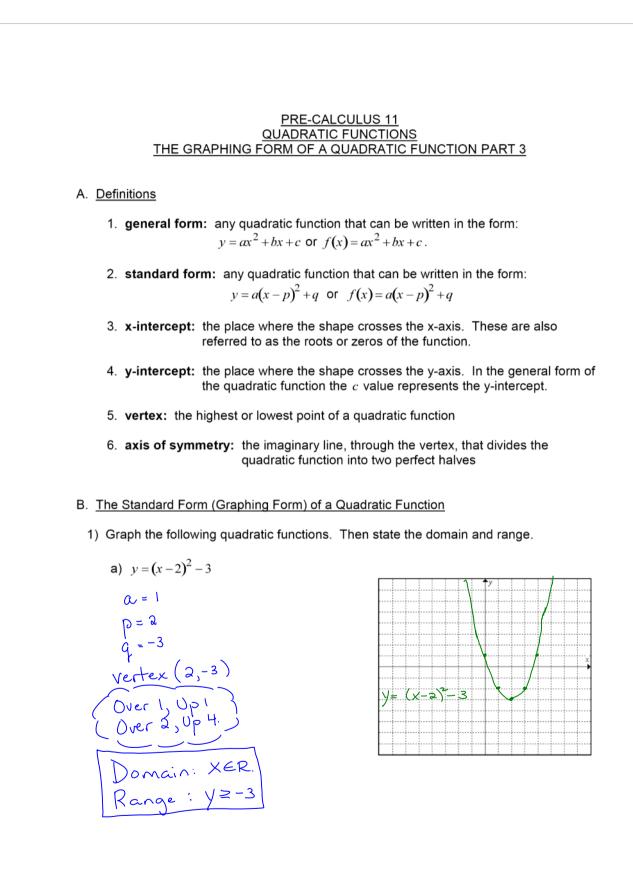
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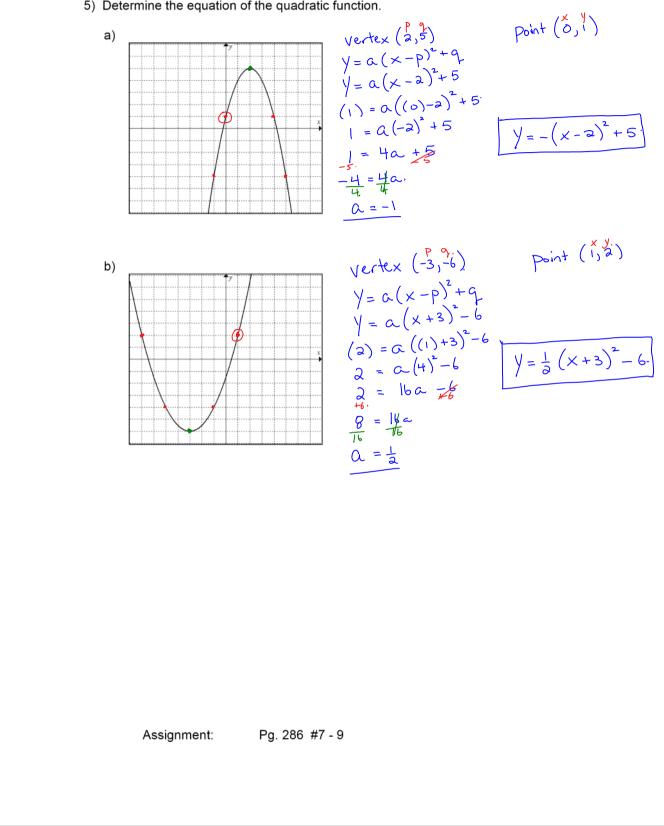


b)
$$y = \frac{1}{2}(x+3)^2 - 5$$

 $a = \frac{1}{3}$
 $p = -3$
 $q = -5$
 $vartex (-3, -5)$
 $vart$

Vertex (2,-3) and passing $\gamma = \alpha (x - p)^{2} + q$ $\gamma = \alpha (x - a)^{2} - 3$ (5) = $\alpha ((4) - a)^{2} - 3$ 5 = $\alpha (a)^{2} - 3$ 5 = $4\alpha - \frac{3}{3}$ $\frac{3}{4} = \frac{4}{4}a$ $\alpha = a$.

$$\sqrt{2} = 2 \left(\times - 2 \right)^2 - 3$$



5) Determine the equation of the quadratic function.