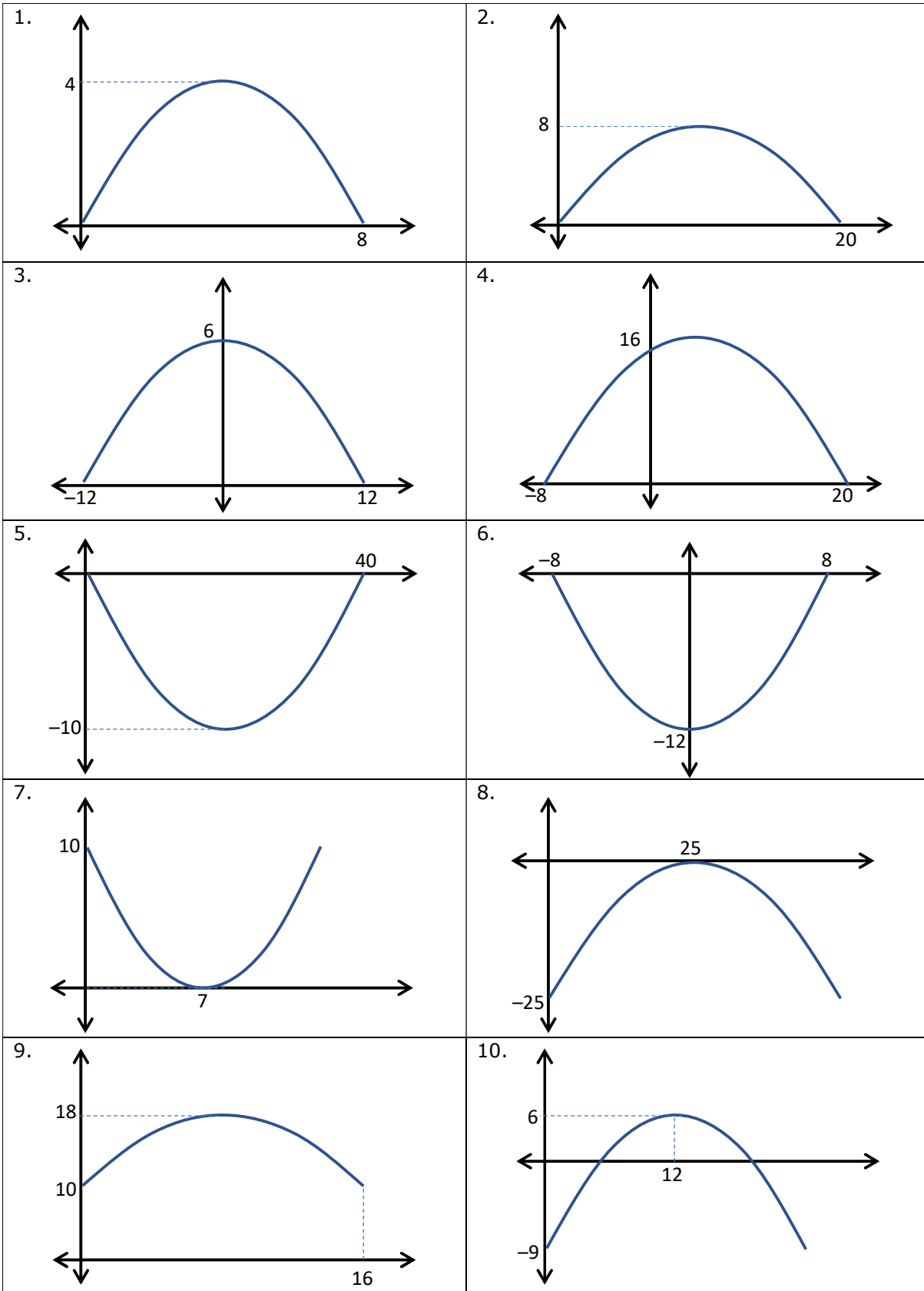


### Harder Parabola Equations #1

Write equations for the following parabolas:



### Harder Parabola Equations #1 – Answers

	Intercept method	Turning point method
1.	$m = \frac{4}{-16}$ $y = -0.25x(x - 8)$	$y = -0.25(x - 4)^2 + 4$
2.	$m = \frac{8}{-100}$ $y = -0.08x(x - 20)$	$y = -0.08(x - 10)^2 + 8$
3.	$m = \frac{6}{-144}$ $y = \frac{-1}{24}(x + 12)(x - 12)$	$y = \frac{-1}{24}x^2 + 6$
4.	$m = \frac{16}{-160}$ $y = -0.1(x + 8)(x - 20)$	
5.	$m = \frac{-10}{-400}$ $y = 0.025x(x - 40)$	$y = 0.025(x - 20)^2 - 10$
6.	$m = \frac{-12}{-64}$ $y = \frac{3}{16}(x + 8)(x - 8)$	$y = \frac{3}{16}x^2 - 12$
7.	$m = \frac{10}{49}$ $y = 0.025x(x - 40)$	$y = \frac{10}{49}(x - 7)^2$
8.	$m = \frac{-25}{625}$ $y = -0.04x(x - 25)$	$y = -0.04(x - 12.5)^2 + 15.625$
9.	$m = \frac{8}{-64}$ $y = -0.125x(x - 16) + 10$	$y = -0.125(x - 8)^2 + 18$
10.	$m = \frac{15}{-144}$ $y = \frac{-5}{48}x(x - 24) - 9$	$y = \frac{-5}{48}(x - 12)^2 + 6$