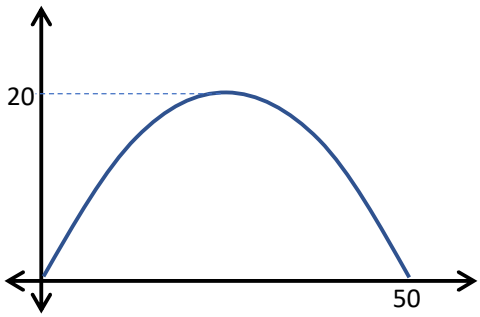
Harder Parabola Equations #2

Write equations for the following parabolas:

1.



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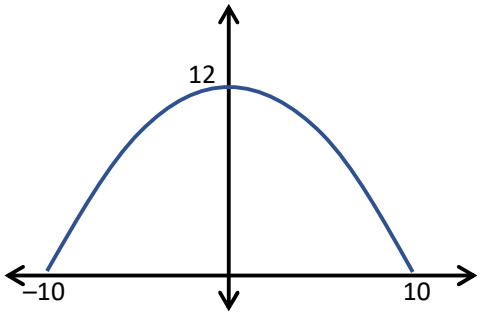

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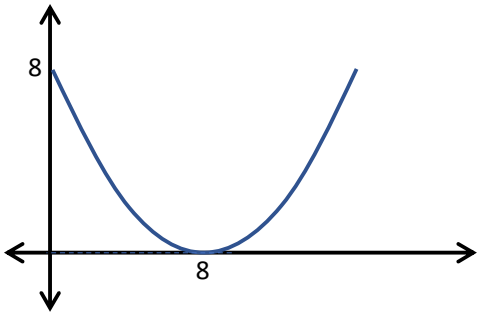

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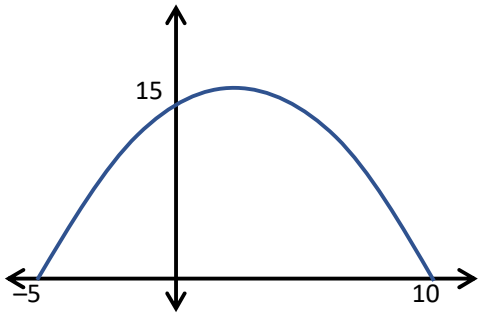

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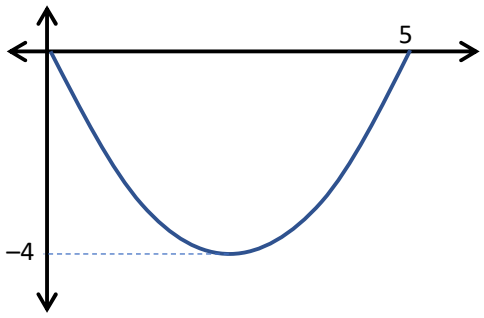

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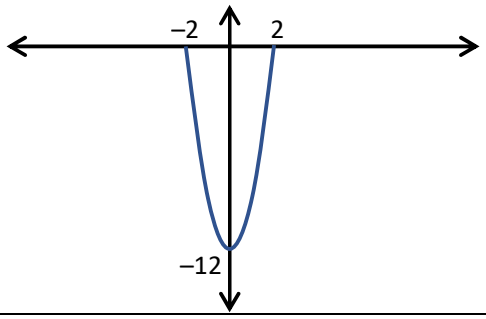

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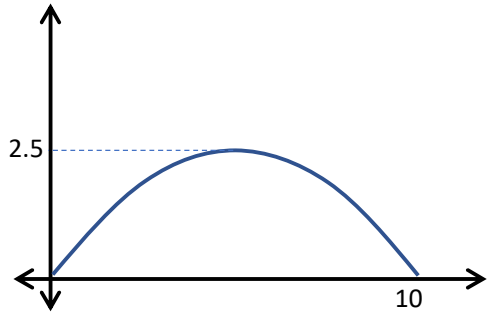

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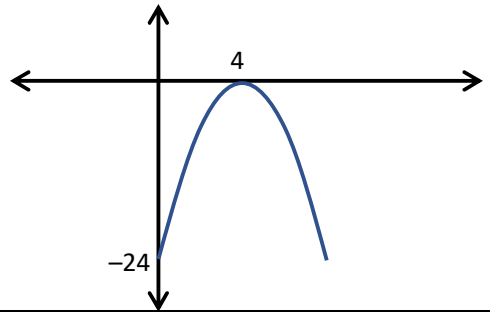
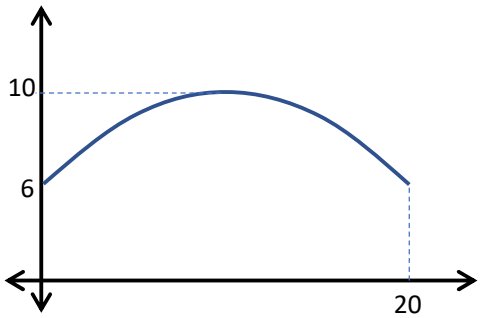


9.



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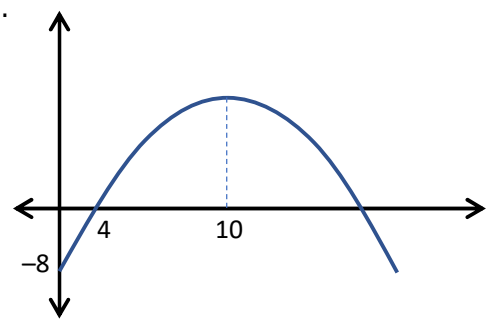

Harder Parabola Equations #2 – Answers

		Intercept method	Turning point method
1.	$m=\frac{20}{-625}$	$y = -0.032\,x\,(x - 50)$	$y = -0.032\,(x - 25)^2 + 20$
2.	$m = \frac{12}{-100}$	$y = -0.12\,(x + 10)(x - 10)$	$y = -0.12\,x^2 + 12$
3.	$m = \frac{8}{64} = \frac{1}{8}$		$y = 0.125\,(x - 8)^2$
4.	$m = \frac{15}{-50}$	$y = -0.3\,(x + 5)(x - 10)$	
5.	$m = \frac{-4}{-6.25}$	$y = 0.64\,x\,(x - 5)$	$y = 0.64\,(x - 2.5)^2 - 4$
6.	$m = \frac{-12}{-4}$	$y = 3(x + 2)(x - 2)$	$y = 3x^2 - 12$
7.	$m=\frac{2.5}{-25}$	$y = -0.1\,x\,(x - 10)$	$y = -0.1\,(x - 5)^2 + 2.5$
8.	$m = \frac{-24}{16}$		$y = -1.5\,(x - 4)^2$
9.	$m = \frac{4}{-100}$	$y = -0.04\,x\,(x - 20) + 6$	$y = -0.04\,(x - 10)^2 + 10$
10.	$m = \frac{-8}{64}$	$y = -0.125\,(x - 4)(x - 16)$	
		or $y = -0.125\,x\,(x - 20) - 8$	