

10.3 Features of a parabola

Complete the table below, then graph the parabolas neatly in your workbook.

Equation	x-intercepts ($y = 0$)	y-intercept ($x = 0$)	Axis of symmetry	Turning point	Which graph below?
1 $y = 3x^2 - 12x + 9$	$x = 1$ or 3				
2 $y = -2x^2 - 8x - 6$		$y = -6$			
3 $y = x^2 - 4x + 5$	none		$x = 2$		
4 $y = 2x^2 + 2x - 12$				$(-\frac{1}{2}, -12\frac{1}{2})$	
5 $y = x^2 + 2x + 1$					B
6 $y = -x^2 + 3x$		$y = 0$			
7 $y = x^2 - 4$			$x = 0$		
8 $y = -x^2 - 2x - 2$	none			$(-1, -1)$	

