

GRADE 11 ADVANCED

Lesson 6.1 Parabolas

Determine whether the following parabolas are vertical (V) or horizontal. (H) Then decide whether its opening upward (U), downward (D), right (R) or left (L).

1.  $y = 2x^2 - 24x + 40$

2.  $y = 3x^2 - 6x - 4$

3.  $x = y^2 - 8y - 11$

4.  $x + 3y^2 + 12y = 18$