

2013 7 A parabola has focus (5, 0) and directrix $x = 1$.

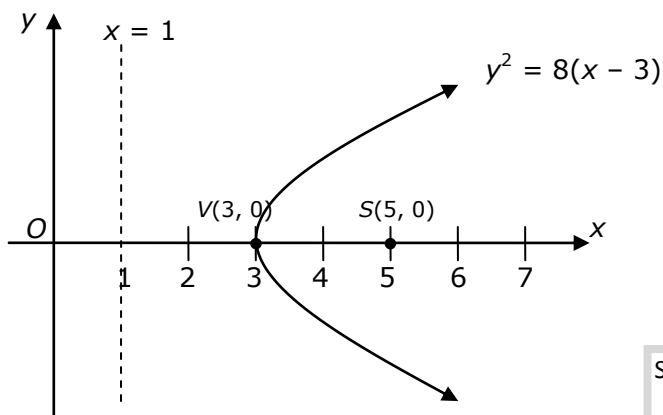
1

What is the equation of the parabola?

- (A) $y^2 = 16(x - 5)$ (B) $y^2 = 8(x - 3)$ (C) $y^2 = -16(x - 5)$ (D) $y^2 = -8(x - 3)$

B

$$\begin{aligned}V(3, 0), a &= 2; \\(y - k)^2 &= 4a(x - h) \\(y - 0)^2 &= 8(x - 3) \\y^2 &= 8(x - 3)\end{aligned}$$



State Mean:
0.60

* These solutions have been provided by [projectmaths](#) and are not supplied or endorsed by BOSTES.