

Warm-up 12: Name the Conic.

1. $25x^2 + 150x = 108y + 351 - 9y^2$

2. $\frac{1}{2}(y + 3) = (x - 3)^2$

3. $12x^2 = 4y^2 - 180x - 40y + 85$

4. $y = -2x^2 + 12x - 17$

5. $\frac{(y + 6)^2}{36} - \frac{(x - 1)^2}{81} = 1$

6. $x^2 + y^2 + 32x - 18y + 328 = 0$