

WS 9.1 Applications – ANSWER KEY

1. $x^2 = -\frac{125}{12}(y - 15)$

2. $x^2 = 6.4y$

3. $(x - 25)^2 + y^2 = 400$, for $y \geq 0$
 $(x - 70)^2 + y^2 = 400$, for $y \geq 0$

4. $x^2 = \frac{51,200}{19}y$

5. (a) $x^2 + y^2 = 64$ (Equation at current time)

$x^2 + y^2 = 784$ (Equation of circle at the time the fire reaches the city)

(c) 5 days

Parabolas and Circles WS – ANSWER KEY

1. B, K
2. G, R
3. I, Q
4. F, P
5. D, J
6. E, S
7. A, N
8. C, O
9. L, H
10. 16, M