Week 3: Formulae and Functions

Solutions

1. (a) $x = v^2 - 2y$, (b) $y = \frac{v^2 - x}{2}$

2. $r = 1.26cm$

3. a. $83.8cm^3$, b. $h = \frac{3V}{\pi r^2}$, c. $r = \sqrt{\frac{3V}{\pi h}}$. d $= 6.13$cm

4. (a) 3t + 11, (b) 3t + 5, (c) 9t + 8.

5. $f(12) = -3 - 11 \times 12 = -135$