

Answers

1. $\frac{38}{7}$ or $5\frac{3}{7}$
2. $y = 3x + 3$
3. $b^2 - 4ac = -16$, no real roots exist.
4. 28°
5. (a) $(x - 4)^2 - 15$ (b) $x = 4$
6. $a = 5, b = -20$
7. 41000
8. 94.2cm^2
9. $6 - 3x^{\frac{3}{2}}$
10. $2\sqrt{7}$
11. $\frac{5\sqrt{6}}{6}$
12. $x = 28$
13. (a) $m = -\frac{4}{5}$ (b) (0,4)
14. On average the weight produced by new machine is lower. Weights also more consistent.
15. (a) proof (b) $x = 3$, length 8 cm.