

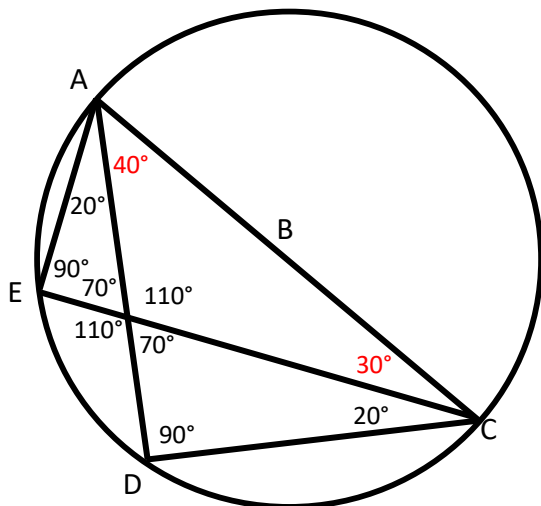


1. $9x^2 - 15x + 6$

2. $2\frac{1}{2}$

3. 190.4

4.



5. (a) $6x(5x - 3)$

(b) $2(4x - 3)(4x + 3)$

6. $(x - 4)^2 + 5$

7. $b = 7m^2 + 5$

8. 300 grams

9. $16x^6$

10. (a) A(-3,0) B(2,0)

(b) C(0,-6)

(continued...)

11. (a) $\frac{1}{2}$

(b) $2y = x - 1$ or $y = \frac{1}{2}x - \frac{1}{2}$ or equivalent

(c) $\left(0, -\frac{1}{2}\right)$



12. (a) $6\sqrt{5}$ (b) $\frac{5\sqrt{2}}{3}$

13. (a) $x + y = 40$

(b) $0.5x + 0.2y = 15.5$

(c) There are fifteen 20 pence coins and twenty-five 50 pence coins.

14. (a) $A = l \times b = (x - 2)(x + 6) = x^2 + 6x - 2x - 12 = x^2 + 4x - 12$ as required

(b) $x = 3$, ~~$x = -7$~~ since $x > 2$