

**PS 26:** 2] (a.)  $\{1,2,3,\dots\}$  (b.)  $\{0,1,2,3,\dots\}$  (c.)  $\{\dots,-3,-2,-1,0,1,2,3,\dots\}$  4]  $\frac{525}{(2.54)^2} \text{ in}^2$

6] 4 ft      8] 7      10]  $\frac{11}{3}$       12] 0.4      14] -3      16] (a.) 10 (b.) 10 (c.) yes (d.) yes

18]  $m^6y^9$       20]  $-2a+ax-3$       22]  $28-12x^2$       24] -6      26] 21      28]  $54\text{cm}^2$

30]  $24\pi \text{ km}^3 = 75.36\text{km}^3$

**PS 27:** 2] The angles opposite the sides of equal length are equal in measure

4]  $\frac{5800}{(12)^2} \text{ ft}^2$       6]  $\frac{7}{8}$       8] 14      10] 60      12] 3      14] 1

16] -3 and 1 solutions      18]  $3p^7x^6y^4$       20]  $-5p^2xy$       22] 0      24] -31

26] 48 m      28]  $63 \text{ in}^2$       30]  $88\pi \text{ ft}^2 = 276.32 \text{ ft}^2$

**PS 28:** 2] The angles opposite the sides of equal length have equal measures

4]  $200(1000)^2 \text{ m}^2$       6] 100      8] 3      10] 6      12] 8

14]  $-\frac{5}{4}$       16] (a.) 6 (b.) 6 (c.) yes (d.) yes      18]  $x^3y^{11}$       20]  $4cp-6c-p$

22]  $x^5y-x^3y^2z^3$       24] 108      26] -20      28]  $465\text{mi}^2$       30]  $624 \text{ cm}^3$

**PS 29:** 2] Parallelogram      4]  $180(3)^2 \text{ ft}^2$       6]  $\frac{1}{4} = 2^{-2} = \frac{1}{2^2}$       8] 1

10]  $225 = \frac{25}{8} \left( \frac{72}{1} \right)$       12] -4      14] 14      16] 1000      18] -5      20]  $b^2$

22]  $3x^3y^4 - 5x^2y^4$       24] 36      26]  $\frac{-7}{3}$       28]  $120\text{mi}^2$       30]  $66\text{m}^2$

**PS 30:** 2] trapezoid      4]  $135(5280)^2 \text{ ft}^2$       6]  $5N-8$       8] 26      10]  $\frac{1}{9}$

12] -1      14] 98      16] 10      18]  $\frac{13}{2}$       20] 100      22]  $a^{-2}x^{-4}y$

24]  $3m^2x^2y + 8m^2xy^2$       26] 36      28]  $(60+12\pi)m = 97.68\text{m}$       30]  $160\pi \text{ in}^3 \approx 502.655 \text{ in}^3$