

14-48 evens, 48, 50, 58-62 even, 65, 68

7.3

(14)  $m^7$     (16)  $8t^{-8} = \frac{8}{t^8}$     (18)  $3x^4$     (20)  $b^3$

(22)  $-45a^4$     (24)  $45x^{11}$     (26)  $x^{-1}y^3 = \frac{y^3}{x^1}$     (28)  $-240m^3r^{-1} = \frac{-240m^3}{r^1}$

(30)  $6 \times 10^9$     (32)  $3.4 \times 10^{-5}$     (34)  $15 \times 10^{21} = 1.5 \times 10^{22}$

(36)  $(2.7 \times 10^4)(7 \times 10^4)(140) = 2646 \times 10^8 = 2.646 \times 10^{11}$

(38)  $-4$     (40)  $11$     (42)  $5$     (44)  $\emptyset$

(48) Area of a square =  $s^2$   
 $A = (2x^2)^2$   
 $A = 2x^2 \cdot 2x^2$   
 $A = 4x^4$

(50) Area of a triangle =  $\frac{1}{2}bh$   
 $A = \frac{1}{2}(2c^3)(4c)$   
 $A = 4c^4$

(58)  $\frac{1}{x^3 \cdot x^{-7}} = \frac{1}{x^{-4}} = \frac{x^4}{1}$  or  $x^4$

(60)  $\frac{4}{c \cdot c^{-5}} = \frac{4}{c^{-4}} = \frac{4c^4}{1}$  or  $4c^4$

(62)  $8m^7 + 16m^3$

(65)  $3^x \cdot 3^{2-x} \cdot 3^2$   
 $3^{x+2-x+2}$   
 $3^4$   
 $81$

(68)  $(a+b)^2(a+b)^{-3}$   
 $(a+b)^{-1}$   
 $\frac{1}{(a+b)}$