SM2 1.3: Polynomials

Put each polynomial in standard form. Identify the lead coefficient and name the polynomial by degree and number of terms.

1) $-10x^2 - 5 + 8x$

2) $-m$

3) $2 + 9x^2$

4) $6b + 3b^4 - 6b^6 + 10b^3$

5) 6

Perform the indicated operation.

6) $(-n^4 - 3) + (7n^4 + 5 + 4n^2)$

7) $5x(2x - 6)$

8) $6a^2(5a + 6)$

9) $(-5n - n^4) - (8n^4 - 7n)$

10) $(6p + 5)(p - 6)$

11) $(4r^2 - 2r^3 + 5r) - (3r^2 - 2r - 5r^4)$
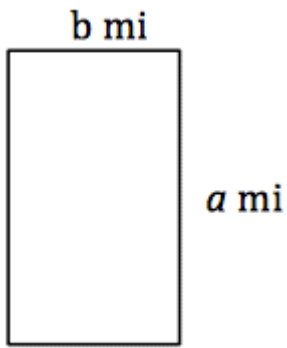
12) $(2b - 7)^2$

13) $(7x + 8)(8x^2 + 8x + 3)$

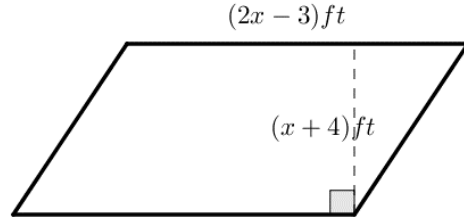14) $(2x^4 - 5x^2) + (6x^2 + 2x^4 - x^3)$

15) $(1 + 7n)(1 - 7n)$

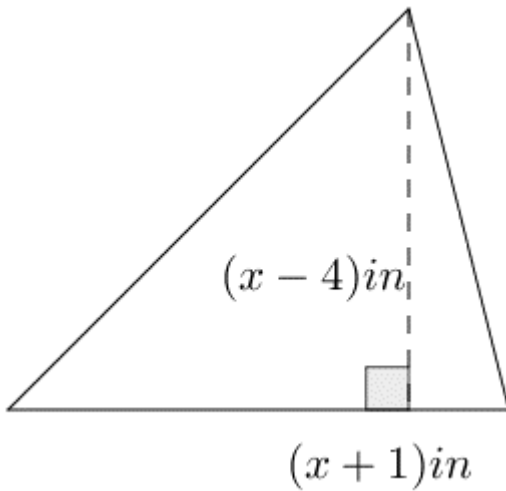Find the measure of each indicated quantity. Include units.

16)

b mi

a mi
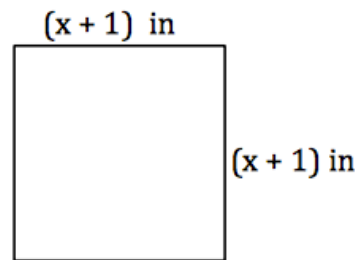
Perimeter of Rectangle:
Area of Rectangle:

17)

$(2x-3)ft$

$(x+4)ft$

Area of Parallelogram:

18)

$(x-4)in$

$(x+1)in$
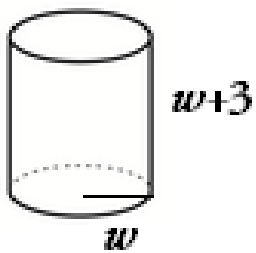
Area of Triangle:

19)   (x + 1) in

(x + 1) in

Area of Square:
Perimeter of Square:

20)

$w+3$

w

Volume of Right Cylinder:
Surface Area of Right Cylinder: