Unit V – Second Degree Relations and Higher - Polynomials
Part C – Solving Equations and Inequalities by Factoring
Lesson 10 – Literal Equations

Solve each of the following literal equations for the place holder indicated.

1. $A = \dfrac{\pi r^2 E}{180}$

   for E

2. $A = p(1 + rt)$

   for t

3. $l = a + (n - 1)d$

   for n

4. $ax - b = c$

   for x

5. $x - c - d = 0$

   for x

6. $2tx + 7 = 8 - 3tx$

   for x

7. $S = 2\pi r(r + h)$

   for h

8. $\dfrac{x - a}{2} = \dfrac{x + b}{3}$

   for x

9. $4r(x + t) = 3rx + n$

   for x

10. $S = \dfrac{n}{2}(a + l)$

   for a

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Solve each of the following literal equations for the place holder indicated.

1. $E = \dfrac{180A}{\pi\, r^2}$

2. $t = \dfrac{A - p}{p\, r}$

3. $n = \dfrac{l - a}{d} + 1$

4. $x = \dfrac{c + b}{a}$

5. $x = c + d$

6. $x = \dfrac{1}{5t}$

7. $h = \dfrac{S - 2\pi\, r^2}{2\pi\, r}$

8. $x = 2b + 3a$

9. $x = \dfrac{n - 4t}{r}$

10. $a = \dfrac{2S - nl}{n}$