

TMT Equation 20 ACT Prep V1

- Solve for y in terms of x : $3x + 2y = 5x - 11$
- Solve for x : $4(x - 3) = 2 + 4x - 14$
- Solve for x : $4x - 8 = 2x + 8 + 2x$
- Write and solve the following:
A number tripled and added to 7 is equivalent to increasing 4 times the number by 4.
- Solve for x : $\log_2 x = 6$
- Solve for x . Keep in logarithmic form:
 $3^x = 11$
- Use substitution to solve for x and y :
$$\begin{cases} 2x + 3y = 23 \\ x + 2y = 14 \end{cases}$$
- Using elimination, solve for x and y :
$$\begin{cases} 3x + 2y = 8 \\ 5x + y = 11 \end{cases}$$
- Solve for x in terms of a : $2x - ax = 14$
- Solve for x : $x^2 + 5x + 4 = 0$
- Solve for x : $x^2 + 4x + 1 = 0$
- Solve for x : $\frac{4}{x} + 2 = \frac{1}{3}$
- Solve for l in terms of p and w : $p = 2l + 2w$
- Solve for x : $3^x = 27^{4x-1}$
(hint: get the bases the same)
- Solve for x : $|x - 4| = 12$
- Solve for x : $2(x + 1)^2 - 4 = 4$
- Solve for x : $x^3 + 4x^2 - 2x = 8$
- Write and solve the exponential equation:
Bob gets 5% annual interest. His initial investment of \$1,000 has grown to \$1,050.
How many years did this take?
- Write and solve the system of equations:
Andre's lawn mowing business charges \$25 to drive out and then \$10 per hour. Carol's business charges \$20 per hour with no additional costs. At what number of hours will it cost the same to hire either person?
- Solve for x : $-2x - 5 < 9$