

Name:

Trajectory: Algebra

1. Early finishers: In the following two problems, solve for the value of x .

(a) $2x + 3 = x + 9$

(b) $\frac{1}{2}(11 - x) = 5$

2. Given the linear function $f(x) = 3x + 4$.

(a) Find $f(0)$

(b) $f(x) = 10$. Find x .

3. Solve for the value of x .

(a) $3x - 3 = x + 7$

(b) $\frac{1}{2}(4x + 2) = 7$

4. Given the linear function $f(x) = 2x - 6$.

(a) $f(x) = 0$. Find x .

(b) Find $f(2)$

5. Solve for the value of x .

(a) $\frac{4}{3}(6x - 3) = x + 10$

(b) $\frac{2}{5}(x - 1) + \frac{5}{2}(1 - x) = 0$

6. Given the linear function $f(x) = -2x + 14$, find x .

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(a) Find $f(4)$

(b) $f(x) = 21$. Find x .

7. Given $x^2 + 9x + 8 = 0$. Factor and find the roots.

8. Given $x^2 + 8x + 7 = 0$. Factor and find the roots.

9. Given $x^2 + 6x + 5 = 0$. Factor and find the roots.