

CHAPTER 3

Linear Equations

3.1 Simplifying Expressions

1) $t = \frac{5}{2} = 2.5$

3) $x = 7$

5) $b = -\frac{34}{9}$

7) $x = 2$

9) $x = 6$

11) $x = -24$

13) $x = -\frac{1}{4} = -0.25$

15)

a) Let h be the hours of Internet use.

Charges:

Provider 1: $12 + 2h$

Provider 2: $15 + 1.5h$

b) $12 + 2h = 15 + 1.5h$

c) $h = 6$

d) Both Internet providers will charge the same amount for 6 hours of Internet use.

17) $\frac{4}{3}$

19) A good estimate for $\sqrt{98}$ is about 9.9 or 9.8.