

Linear Equations Quiz for Math 80 Intermediate Algebra

1. $4(a+1) - 3a + 4 = -2$

2. $3(x+6) = 5(2-x)$

3. $4(2+3t) - 1 = 4(-2) + 11t$

4. $-2(k-4) + 3(k+4) = 4(k-1)$

5. $7(t+1) - 5t = -2(t-1) - 2t - 1$

6. $\frac{a}{2} + \frac{4}{3} = \frac{a}{3}$

7. a) $\frac{x}{3} + \frac{1}{5} = \frac{2x}{15}$ b) $\frac{p}{4} + \frac{p}{6} = \frac{p}{8} - \frac{7}{12}$

8. a) $\frac{y}{4} + \frac{5}{2} = \frac{y}{6} + 3$ b) $6 + \frac{k}{7} = \frac{k}{2} - \frac{11}{4}$

9. a) $\frac{y-2}{5} - \frac{y}{15} = \frac{8}{3}$ b) $\frac{x}{8} - \frac{4}{3} = \frac{x-1}{6} - 2$

10. a) $\frac{x+1}{8} = \frac{x}{5} - \frac{x-2}{10}$

11. Identities, Contradictions and Conditional Equations

a) $2a+1 = 2(a+1) - 1$

b) $2a+1 = 2(a+1) - 2$

c) $2m-3 = 3(m-1) - m$

d) $4x+6 = 6x+2(2-x)$

e) $8t - (4 - 2t) = 4t - 6(-t + 3)$

f) $\frac{2x+1}{8} - \frac{x+1}{4} = \frac{-1}{8}$

Linear Equations Quiz Answers

- 1) -10 2) -1 3) -15 4) 8 5) -1 6) -8 7) $x = -1, p = -2$
8) $y = -6, k = 19$ 9) $y = 23, x = 20$ 10) 3 11) a) All real numbers
b) No solution or \emptyset , c) All real numbers, d) No solution or \emptyset
e) No solution or \emptyset , f) All real numbers
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