

Skills Test Practice

Solve the following algebraically without a calculator.

1) $4(3x + 1) - 2(3x - 2) = 15$

2) $\frac{3}{4}(r + 3) - \frac{1}{8}(3r + 2) = \frac{1}{2}r$

3) $\sqrt{3t + 4} + t = 8$

4) $\sqrt[3]{q^2 + 2q} - 2 = 0$

5) $\frac{6p-12}{p+3} + \frac{5}{p-2} = 6$

6) $\frac{1}{y^2+3y+2} + \frac{1}{y-1} = \frac{2}{y^2-1}$

7) $(x - 1)^2 - 5 = 4$

8) $3(2c - 7)^2 = 15$

9) $2z^2 = 2z + 1$

10) $2z^2 = 2z - 1$

11) $A = \frac{b}{b-c}$, solve for b

12) $2p = 3pc + f$, solve for p

13) $gf + 3g = 4f - 6gf$, solve for f .