

# Chapter Test A

For use after Chapter 11

**Simplify the expression.**

20.  $\frac{14}{3x} + \frac{x+5}{3x}$

21.  $\frac{4}{x+2} - \frac{3}{x+2}$

22.  $\frac{3}{x} + \frac{2}{x^2}$

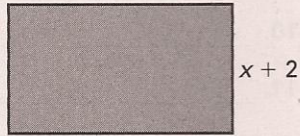
23.  $\frac{4}{5x} - \frac{3}{x}$

**Divide.**

24. Divide  $15x^2 + 10x - 5$  by  $5x$ .

25. Divide  $x^2 + 3x - 18$  by  $x - 3$ .

26. The area and one dimension of a rectangle are shown. Find the missing dimension.



$A = 2x^2 + x - 6$

**Solve the equation.**

27.  $\frac{x}{4} = \frac{7}{2}$

28.  $\frac{1}{3} + \frac{2}{x} = \frac{3}{x}$

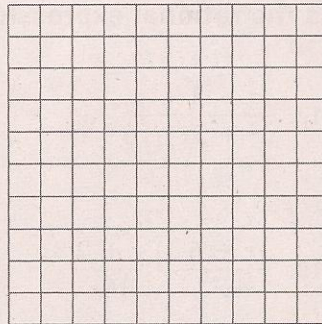
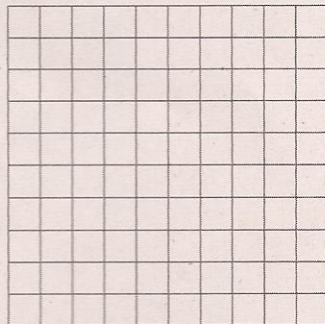
29.  $\frac{2}{5} - \frac{3}{x} = \frac{1}{5x}$

30.  $\frac{3}{x+1} - \frac{1}{x} = \frac{1}{2}$

**Sketch a graph of the function.**

31.  $y = \frac{1}{x} - 3$

32.  $y = \frac{1}{x+1} + 1$



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