1 Math101 answers

1.1 The answers are:
$$\frac{14}{7}, \qquad \frac{1}{7}, \qquad \frac{10}{7}, \qquad \frac{-3}{7}.$$

1.2 The answers are:
$$9, \qquad -1, \qquad 8, \qquad 25, \qquad \frac{1}{4}.$$

1.3 The answers are:
$$0, \qquad 3, \qquad \frac{1}{6}, \qquad 2.$$

1.4 The answers are:
$$2 - 2x, \qquad 8x^2 + y^2 + xy.$$

1.5 The answers are:
$$-\frac{2}{3}, \qquad \frac{3}{2}, \qquad \frac{5}{12}, \qquad \frac{15}{8}, \qquad 6.$$

1.6 The answers are:
$$\frac{27}{8}, \qquad \frac{1}{8}, \qquad 1, \qquad 2.$$

1.7 The answers are:
$$x - 2, \qquad x - 1, \qquad \frac{2x}{x+3}.$$

1.8 The answers are:
$$\sqrt{2}, \qquad \sqrt{2}, \qquad \frac{\sqrt{2}}{2}, \qquad \sqrt{2}.$$

1.9 The answers are:
$$\frac{3}{5}, \qquad \frac{3}{10}.$$

1.10 The answers are:
$$xy, \qquad x^{-3}, \qquad 9x^5.$$

1.11 The answers are:
$$x^{\frac{3}{2}}, \qquad x^{\frac{5}{2}}, \qquad x^{-\frac{3}{2}}, \qquad x^{\frac{7}{3}}.$$