

7.1-7.2 Station Walk

Date _____ Period _____

Simplify each and state the excluded values.

1)
$$\frac{n^2 + 4n - 5}{n^2 + 6n + 5}$$

Simplify each expression.

2)
$$\frac{4n - 20}{n^2 - 15n + 50} \cdot \frac{n^2 - 18n + 80}{4n + 8}$$

3)
$$\frac{20r - 70}{10r - 35} \div \frac{10r^2 + 70r}{10r}$$

4)
$$\frac{2}{n - 2} + \frac{4n}{5n - 3}$$

5)
$$\frac{5}{n + 1} - \frac{4}{n - 5}$$

Answers to 7.1-7.2 Station Walk (ID: 1)

$$1) \frac{n-1}{n+1}; \{-5, -1\}$$

$$2) \frac{n-8}{n+2}$$

$$3) \frac{2}{r+7}$$

$$4) \frac{4n^2 + 2n - 6}{(n-2)(5n-3)}$$

$$5) \frac{n-29}{(n-5)(n+1)}$$

7.1-7.2 Station Walk

Date _____ Period _____

Simplify each and state the excluded values.

1)
$$\frac{4k^2 + 8k}{6k^2 - 16k}$$

Simplify each expression.

2)
$$\frac{56v - 16}{12v^3 + 28v^2} \cdot \frac{21v + 49}{49v - 14}$$

3)
$$\frac{n^2 - 4n - 21}{n - 1} \div \frac{n^2 - n - 12}{n^2 - 5n + 4}$$

4)
$$\frac{6}{n + 6} + \frac{4}{n + 2}$$

5)
$$\frac{4}{3x - 5} - \frac{3x}{x + 6}$$

Answers to 7.1-7.2 Station Walk (ID: 2)

$$1) \frac{2(k+2)}{3k-8}; \left\{0, \frac{8}{3}\right\}$$

$$2) \frac{2}{v^2}$$

$$3) n-7$$

$$4) \frac{10n+36}{(n+6)(n+2)}$$

$$5) \frac{-9x^2 + 19x + 24}{(3x-5)(x+6)}$$

7.1-7.2 Station Walk

Date _____ Period _____

Simplify each and state the excluded values.

1)
$$\frac{18n^2 + 72n}{18n^2 - 18n}$$

Simplify each expression.

2)
$$\frac{5n + 45}{n - 8} \cdot \frac{32 - 4n}{4n + 36}$$

3)
$$\frac{5x^2 - 30x}{x - 3} \div \frac{x^2 + 2x - 48}{3x - 9}$$

4)
$$\frac{n - 6}{15n^2 - 18n} + \frac{6}{3}$$

5)
$$\frac{4}{2p} - \frac{3p}{3p^2 + 15p}$$

Answers to 7.1-7.2 Station Walk (ID: 3)

1) $\frac{n+4}{n-1}; \{0, 1\}$

2) -5

3) $\frac{15x}{x+8}$

4) $\frac{30n^2 - 35n - 6}{3n(5n - 6)}$

5) $\frac{p+10}{p(p+5)}$

7.1-7.2 Station Walk

Date _____ Period _____

Simplify each and state the excluded values.

1)
$$\frac{4n + 24}{n^2 + 13n + 42}$$

Simplify each expression.

2)
$$\frac{x^2 - 5x + 4}{2x - 8} \cdot \frac{2x - 8}{x - 4}$$

3)
$$\frac{15x - 40}{x - 4} \div \frac{30x^2 - 80x}{x^2 - 6x + 8}$$

4)
$$\frac{5b}{2} + \frac{2b}{2b + 12}$$

5)
$$4x - \frac{x + 6}{9x^3 - 36x^2}$$

Answers to 7.1-7.2 Station Walk (ID: 4)

$$1) \frac{4}{n+7}; \{-7, -6\}$$

$$2) x - 1$$

$$3) \frac{x-2}{2x}$$

$$4) \frac{5b^2 + 32b}{2(b+6)}$$

$$5) \frac{36x^4 - 144x^3 - x - 6}{9x^2(x-4)}$$

7.1-7.2 Station Walk

Date _____ Period _____

Simplify each and state the excluded values.

1)
$$\frac{6x - 48}{x^2 - 5x - 24}$$

Simplify each expression.

2)
$$\frac{v - 4}{v^2 - 8v + 15} \cdot \frac{v^2 - 4v - 45}{v^2 + v - 20}$$

3)
$$\frac{30n^2 - 3n^3}{7n^3 - 70n^2} \div \frac{7}{7n^3 - 14n^2}$$

4)
$$5 + \frac{a + 4}{12a^2 + 8a}$$

5)
$$\frac{5k}{4} - \frac{6k}{5k - 6}$$

Answers to 7.1-7.2 Station Walk (ID: 5)

1) $\frac{6}{x+3}; \{8, -3\}$

2) $\frac{v-9}{(v-5)(v-3)}$

3) $-\frac{3n^2(n-2)}{7}$

4) $\frac{60a^2 + 41a + 4}{4a(3a+2)}$

5) $\frac{25k^2 - 54k}{4(5k-6)}$

7.1-7.2 Station Walk

Date _____ Period _____

Simplify each and state the excluded values.

1)
$$\frac{x^2 - 12x + 32}{x^2 - 5x + 4}$$

Simplify each expression.

2)
$$\frac{16 + 6n - n^2}{n + 10} \cdot \frac{10n + 100}{n^2 - 14n + 48}$$

3)
$$\frac{x^2 - 8x + 12}{x^2 - 2x - 24} \div \frac{x - 2}{10x + 20}$$

4)
$$\frac{k - 3}{2k + 10} + \frac{4k}{3k}$$

5)
$$\frac{6}{3n + 3} - \frac{5n}{n + 2}$$

Answers to 7.1-7.2 Station Walk (ID: 6)

1) $\frac{x-8}{x-1}; \{4, 1\}$

2) $-\frac{10(2+n)}{n-6}$

3) $\frac{10(x+2)}{x+4}$

4) $\frac{11k+31}{6(k+5)}$

5) $\frac{-3n+4-5n^2}{(n+2)(n+1)}$

7.1-7.2 Station Walk

Date _____ Period _____

Simplify each and state the excluded values.

1)
$$\frac{n^2 + 11n + 28}{9n^3 + 36n^2}$$

Simplify each expression.

2)
$$\frac{p+1}{p^2+5p-36} \cdot \frac{3p^2-9p}{p^2-2p-3}$$

3)
$$\frac{r+6}{r^2+16r+60} \div \frac{24}{2r+20}$$

4)
$$\frac{5}{2} + \frac{x+4}{2x+12}$$

5)
$$\frac{2a-5}{3a+4} - \frac{2a}{a-4}$$

Answers to 7.1-7.2 Station Walk (ID: 7)

1) $\frac{n+7}{9n^2}; \{0, -4\}$

2) $\frac{3p}{(p-4)(p+9)}$

3) $\frac{1}{12}$

4) $\frac{3x+17}{x+6}$

5) $\frac{-4a^2 - 21a + 20}{(a-4)(3a+4)}$

7.1-7.2 Station Walk

Date _____ Period _____

Simplify each and state the excluded values.

1)
$$\frac{x^2 - 2x + 1}{x^2 + 9x - 10}$$

Simplify each expression.

2)
$$\frac{9x^3 - 63x^2}{9x^2} \cdot \frac{x^2 + 2x - 63}{x^2 + 8x - 9}$$

3)
$$\frac{p^2 + 4p - 5}{9p^2 + 45p} \div \frac{p - 10}{9p^2 - 90p}$$

4)
$$\frac{6}{m - 6} + \frac{m - 1}{m - 2}$$

5)
$$\frac{x + 1}{x^2 + 7x + 6} - 5$$

Answers to 7.1-7.2 Station Walk (ID: 8)

1) $\frac{x-1}{x+10}; \{1, -10\}$

2) $\frac{(x-7)^2}{x-1}$

3) $p-1$

4) $\frac{m^2-m-6}{(m-6)(m-2)}$

5) $\frac{-5x-29}{x+6}$