

2, 4, 9, 6, 7

$$2. \quad -\frac{26}{25} \div \frac{39}{20}$$

$$-\frac{26}{25} \cdot \frac{20}{39} = \frac{-280}{315} = -\frac{8}{9}$$

$$4. \quad \frac{\cancel{2}^2 \cancel{2}^2}{\cancel{3}^1 \cancel{5}^1} \cdot \frac{\cancel{5}^1}{\cancel{11}^1 \cancel{2}^3} = \frac{\cancel{2}^2}{\cancel{3}^1 \cancel{2}^2}$$

$$6. \quad \frac{28x}{25} \div \frac{21x^3}{15}$$

$$\frac{28x}{25} \cdot \frac{15}{21x^3} = \frac{420x}{525x^3}$$

$$\left(\frac{4}{5x^2} \right)$$

$$7. \quad \frac{x^2}{4} \cdot \left(\frac{xy}{6} \right)^{-1} \cdot \frac{2y^2}{x}$$

$$\frac{x^2}{4} \cdot \frac{6}{xy} \cdot \frac{2y^2}{x}$$

$$\frac{12 \cancel{x}^2 \cancel{y}^2}{4 \cancel{x}^2 \cancel{y}} = (3y)$$

$$9. \quad \frac{4rs^2}{45} \div \frac{8s}{27r} \div \frac{9rs}{10}$$

$$\frac{4rs^2}{45} \cdot \frac{27r}{8s} \cdot \frac{10}{9rs}$$

$$\frac{1080r^2 \cancel{s}^2}{3240 \cancel{r} \cancel{s}^2} = \left(\frac{r}{3} \right)$$

2/23/10

$$8. \quad 2uv \div \frac{2u^2}{v} \div \frac{2v^2}{u}$$

$$f(x) = \frac{x^2 - 16}{x^2 - 6x + 8}$$

$$f(x) = \frac{(x+4)\cancel{(x-4)}}{(x-2)\cancel{(x-4)}}$$

$$x - 2 = 0 \quad x + 4 = 0$$

Asy: $x = 2$ Hde: $x = -4$

$$\left(\frac{2a^2b^3}{c^3}\right) \left(\frac{c^2}{6a}\right)^2$$

$$\frac{2a^2b^3}{c^3} \cdot \frac{c^4}{36a^2} = \frac{\cancel{2a^2}b^3c^4}{\cancel{36a^2}c^3}$$

$$\frac{b^3c}{18}$$

$$\left(\frac{x^2 y^{-1}}{z}\right)^{-2} \left(\frac{x^2 y^2}{z^{-3}}\right)$$

$$\frac{x^{-4} y^2}{z^{-2}} \cdot \frac{x^2 y^2}{z^{-3}} = \frac{x^{-2} y^4}{z^{-5}}$$

$$\frac{y^4 z^5}{x^2}$$