

4, 5, 6, 8, 10, 1

$$1. \frac{5x^2 - 15x}{10x^2} = \frac{\cancel{5x}(x-3)}{2 \times 10x^{\cancel{2}}}$$

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

$$4. \frac{z^3 - 4z}{z^2 - 4z + 4} = \frac{z(z^2 - 4)}{(z-2)(z-2)}$$

$$\frac{z(z+2)(z-2)}{(z-2)(z-2)}$$

$$\frac{z(z+2)}{(z-2)}$$

$$5. (p-q)(q-p)^{-1}$$

$$\frac{p-q}{q-p}$$

$$\frac{-(q-p)}{q-p} = -1$$

$$6. (r^2 - rs)(r^2 - s^2)^{-1}$$

$$\frac{r^2 - rs}{r^2 - s^2} = \frac{r(r-s)}{(r-s)(r+s)}$$

$$\frac{r}{r+s}$$

$$8. \frac{(a-x)^2}{x^2 - a^2} = \frac{(a-x)^2}{(x-a)(x+a)}$$

$$\frac{(a-x)^{\cancel{2}}}{-(a-x)(x+a)} = \frac{a-x}{x+a}$$

$$\frac{x-a}{x+a}$$

$$10. \frac{2t^2 + 5t - 3}{2t^2 + 7t + 3}$$

$$\frac{(2t-1)(t+3)}{(2t+1)(t+3)} = \frac{2t-1}{2t+1}$$

2/17/10 #2

$$4. \frac{z^3 - 4z}{z^2 - 4z + 4}$$

