

## Unit 4 Test Review Warm Up

**Simplify each expression.**

1) 
$$\frac{\frac{u-2}{6} - \frac{36}{5}}{\frac{36}{5} + \frac{25}{25}}$$

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

3) 
$$\frac{\frac{x}{3}}{\frac{1}{4} + \frac{1}{2}}$$

4) 
$$\frac{\frac{x}{25} + \frac{4}{5}}{5}$$

5) 
$$\frac{3}{\frac{u^2}{9} + \frac{1}{u}}$$

6) 
$$\frac{\frac{6m+36}{m-3} + \frac{m-3}{36}}{m+6}$$

7) 
$$\frac{\frac{1}{2}}{\frac{u}{4} + \frac{2}{3u+2}}$$

8) 
$$\frac{\frac{9}{2} + \frac{2}{x+2}}{\frac{9}{x+2}}$$

## Unit 4 Test Review Warm Up

Simplify each expression.

$$1) \frac{\frac{u-2}{6} + \frac{36}{25}}{\frac{5}{5} + \frac{25}{25}} \quad \frac{25u-50}{66}$$

$$2) \frac{\frac{x}{x+4} + \frac{4}{x+4}}{2} \quad \frac{1}{2}$$

$$3) \frac{\frac{x}{3}}{\frac{1}{4} + \frac{1}{2}} \quad \frac{4x}{9}$$

$$4) \frac{\frac{x}{25} + \frac{4}{5}}{5} \quad \frac{x+20}{125}$$

$$5) \frac{\frac{3}{u^2} + \frac{1}{u}}{\frac{9}{9} + \frac{1}{u}} \quad \frac{27u}{u^3+9}$$

$$6) \frac{\frac{6m+36}{m-3} + \frac{m-3}{36}}{m+6} \quad \frac{210m+1305+m^2}{36m^2+108m-648}$$

$$7) \frac{\frac{1}{2}}{\frac{u}{4} + \frac{2}{3u+2}} \quad \frac{6u+4}{3u^2+2u+8}$$

$$8) \frac{\frac{9}{2} + \frac{2}{x+2}}{\frac{9}{x+2}} \quad \frac{9x+22}{18}$$