NAME

Module 15 Simplifying Rational Expressions
Lesson 1 Finding Restricted Values of Rational Expressions

State the restricted values for each rational expression.

1. $\frac{x+1}{4}$ **no restricted values**
2. $\frac{2x}{x}$ **0**
3. $\frac{3x}{x-4}$ **4**
4. $\frac{n+3}{n+5}$ **–5**
5. $\frac{h-5}{2h-9}$ **$\frac{9}{2}$**
6. $\frac{4s-8}{2s+6}$ **–3**
7. $\frac{2v-5}{v-9}$ **9**
8. $\frac{y^2-6y}{8}$ **no restricted values**
9. $\frac{4z-3}{7z+21}$ **–3**
10. $\frac{4k}{k^2-9}$ **3, –3**
11. $\frac{6u}{u^2-10u}$ **0, 10**
12. $\frac{3m-6}{4m^2-12m}$ **0, 3**
13. $\frac{6w-9}{2w^2-98}$ **7, –7**
14. $\frac{3g-9}{16g^3-25g}$ **0, $\frac{5}{4}$, $-\frac{5}{4}$**
15. $\frac{7y}{y^2-14y+48}$ **6, 8**
16. $\frac{x+9}{2x^2+16x+30}$ **–5, –3**
17. $\frac{c^2+2c+1}{6c^2-8c-8}$ **2, $-\frac{2}{3}$**
18. $\frac{x-2}{20x^2-7x-3}$ **$-\frac{1}{4}$, $\frac{3}{5}$**
19. $\frac{d^2-2d-8}{6d^2+29d-5}$ **$\frac{1}{6}$, –5**
20. $\frac{p+4}{21p^2-p-2}$ **$-\frac{2}{7}$, $\frac{1}{3}$**