

$$20. \frac{5}{\sqrt{7}} = \frac{5}{\sqrt{7}} \cdot \frac{\sqrt{7}}{\sqrt{7}} = \frac{5\sqrt{7}}{7}$$

$$\begin{aligned} 22. \frac{-3}{\sqrt{12}} &= \frac{-3}{\sqrt{4 \cdot 3}} = \frac{-3}{2\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} \\ &= \frac{-3\sqrt{3}}{6} \\ &= -\frac{\sqrt{3}}{2} \end{aligned}$$

$$\begin{aligned} 24. \frac{3}{1-\sqrt{5}} &= \frac{3}{1-\sqrt{5}} \cdot \frac{1+\sqrt{5}}{1+\sqrt{5}} \\ &= \frac{3(1+\sqrt{5})}{1-5} \\ &= \frac{-3(1+\sqrt{5})}{4} \end{aligned}$$

$$\begin{aligned} 26. \frac{-2}{\sqrt{3}-\sqrt{2}} &= \frac{-2}{\sqrt{3}-\sqrt{2}} \cdot \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}+\sqrt{2}} \\ &= \frac{-2(\sqrt{3}+\sqrt{2})}{3-2} = \frac{-2(\sqrt{3}+\sqrt{2})}{1} \\ &= -2(\sqrt{3}+\sqrt{2}) \end{aligned}$$

$$\begin{aligned} 28. \frac{1}{\sqrt{r}-\sqrt{3}} &= \frac{1}{\sqrt{r}-\sqrt{3}} \cdot \frac{\sqrt{r}+\sqrt{3}}{\sqrt{r}+\sqrt{3}} \\ &= \frac{\sqrt{r}+\sqrt{3}}{r-3} \end{aligned}$$

$$\begin{aligned} 30. \frac{y-5}{\sqrt{y}-\sqrt{5}} &= \frac{y-5}{\sqrt{y}-\sqrt{5}} \cdot \frac{\sqrt{y}+\sqrt{5}}{\sqrt{y}+\sqrt{5}} \\ &= \frac{(y-5)(\sqrt{y}+\sqrt{5})}{y-5} \\ &= \sqrt{y}+\sqrt{5} \end{aligned}$$