Precalculus Prerequisites Section 0.2 Exercises

In the following exercises, perform the indicated operations and simplify.

1. $\dfrac{\frac{2}{3} - \frac{5}{4}}{\frac{-15}{12} + 2}$

2. $\sqrt{\sqrt{25} - (\sqrt{5})^2}$

3. $\dfrac{2 \cdot 7^{1969}}{7^{1968} \cdot 3}$

4. $\dfrac{1 + 3^{-2}}{3 - 2^{-1}}$

5. $\dfrac{-3 + \sqrt{5^2 - 4(3)(-1)}}{2}$

6. $3\sqrt{2(17) + 2} + 2(5)\left(\dfrac{2}{5}\right)(2(17) + 2)^{(-1/2)}(2)$