

9.5 Classwork: Rounding and functions

1. Do Now: Which expressions are equivalent to $3\sqrt{5} + \sqrt{5}$?

☐ $\sqrt{5} + \sqrt{5} + \sqrt{5} + \sqrt{5}$

☐ $\sqrt{8} + \sqrt{5}$

☐ $3\sqrt{10}$

☐ $(3 + 1)\sqrt{5}$

☐ $\sqrt{3}\sqrt{5}$

Function substitution

2. (a) Given $f(x) = 4x + 7$.

Simplify $f(2)$.

(c) Given $h(x) = x^2 - 4x + 1$.

Simplify $h(0)$.

(b) Given $g(x) = \frac{3}{2}x - 5$.

Simplify $g(4)$.

(d) Given $j(x) = x - 11$.

Find x such that $j(x) = 5$.

Rounding

3. (a) Round to the *nearest hundredth*

15.944732

(d) Round to the *nearest tenth*

$\alpha = \frac{3}{2}\pi$

(b) Round to the *nearest thousandth*

$\sqrt{2}$

(e) Round to *three significant figures*

19.49711

(c) Round to the *nearest hundredth*

$\theta = \frac{\pi}{3}$

(f) Round to *three significant figures*

6.56501