Finding the Range

Name _____

Score _____

DR:II:13

Find the range of each function.

1) $f(x) = -3x + 2$

Domain = {–2, 0, 3, 4, 8}

Range =

2) $f(x) = 5x$

Domain = {–6, –3, –2, 1, 4, 5}

Range =

3) $f(x) = \frac{1}{3}x - 2$

Domain = {–12, 0, 3, 18}

Range =

4) $f(x) = x^2 - x + 1$

Domain = {–1, 2, 3, 5, 6}

Range =

5) $f(x) = -7 + x$

Domain = {–5, –4, –1, 1, 4, 5, 7}

Range =

6) $f(x) = 2x^3 - 1$

Domain = {–3, 0, 2, 3, 4}

Range =

7) $f(x) = \frac{x + 6}{4}$

Domain = {–30, –26, –14, –6, 2, 6}

Range =

8) $f(x) = \sqrt{x}$

Domain = {0, 4, 9, 25}

Range =

Finding the Range

Answer key

Name _____

Score _____

DR:II:13

Find the range of each function.

1) $f(x) = -3x + 2$

Domain = {–2, 0, 3, 4, 8}

Range = **{–26, –10, –7, 2, 8}**

2) $f(x) = 5x$

Domain = {–6, –3, –2, 1, 4, 5}

Range = **{–30, –15, –10, 5, 20, 25}**

3) $f(x) = \frac{1}{3}x - 2$

Domain = {–12, 0, 3, 18}

Range = **{–6, –2, –1, 4}**

4) $f(x) = x^2 - x + 1$

Domain = {–1, 2, 3, 5, 6}

Range = **{1, 3, 7, 21, 31}**

5) $f(x) = -7 + x$

Domain = {–5, –4, –1, 1, 4, 5, 7}

Range = **{–12, –11, –8, –6, –3, –2, 0}**

6) $f(x) = 2x^3 - 1$

Domain = {–3, 0, 2, 3, 4}

Range = **{–55, –1, 15, 53, 127}**

7) $f(x) = \frac{x + 6}{4}$

Domain = {–30, –26, –14, –6, 2, 6}

Range = **{–6, –5, –2, 0, 2, 3}**

8) $f(x) = \sqrt{x}$

Domain = {0, 4, 9, 25}

Range = **{0, 2, 3, 5}**