

MATH 161 WORKOUT 8 NAME: \_\_\_\_\_

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[ Run: 10/28/2012 at 22:58. Order of Checkable Items: List.]

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**8-1.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +375.38x^0$$

and let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{g} g(x) = +24.98x^0$$

find the *local graph* of the function  $f + g$  near  $\infty$ .

**8-2.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -215.56x^0$$

and let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{g} g(x) = +34.34x^0$$

find the *local graph* of the function  $f + g$  near  $\infty$ .

**8-3.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -372.89x^0$$

and let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{g} g(x) = -02.48x^0$$

find the *local graph* of the function  $f + g$  near 0.

**8-4.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -83.04x^0$$

and let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +92.39x^0$$

find the *local graph* of the function  $f + g$  near 0.

**8-5.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -0.5x^{+1}$$

and let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -0.75x^{+1}$$

find the *local graph* of the function  $f + g$  near  $\infty$ .

**8-6.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -0.5x^{+1}$$

and let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +0.75x^{+1}$$

find the *local graph* of the function  $f + g$  near  $\infty$ .

**8-7.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -215.56x^0$$

and let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{g} g(x) = +0.25x^{+1}$$

find the *local graph* of the function  $f + g$  near  $\infty$ .

**8-8.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +4.6x^0$$

and let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{g} g(x) = +2x^{+1}$$

find the *local graph* of the function  $f + g$  near 0.

**8-9.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -10.56x^0$$

and let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{g} g(x) = +0.25x^{+2}$$

find the *local graph* of the function  $f + g$  near  $\infty$ .

**8-10.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +52.72x^0$$

and let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{g} g(x) = -0.25x^{+2}$$

find the *local graph* of the function  $f + g$  near 0.

**8-11.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +18.92x^0$$

and let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{g} g(x) = +2.25x^{+3}$$

find the *local graph* of the function  $f + g$  near  $\infty$ .

**8-12.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -24.29x^0$$

and let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{g} g(x) = -0.33x^{+3}$$

find the *local graph* of the function  $f + g$  near 0.

**8-13.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +5.72x^0$$

let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{g} g(x) = +0.23x^{+1}$$

and let  $k$  be the function specified by the global input-output rule

$$x \xrightarrow{k} k(x) = -0.33x^{+2}$$

find the *local graph* of the function  $f + g + k$  near  $\infty$ .

**8-14.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -4.67x^0$$

let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{g} g(x) = +3.61x^{+1}$$

and let  $k$  be the function specified by the global input-output rule

$$x \xrightarrow{k} k(x) = -0.51x^{+2}$$

find the *local graph* of the function  $f + g + k$  near 0.

**8-15.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -14.67x^0$$

let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{g} g(x) = +0.61x^{+1}$$

and let  $k$  be the function specified by the global input-output rule

$$x \xrightarrow{k} k(x) = +1.04x^{+3}$$

find the *local graph* of the function  $f + g + k$  near 0.

**8-16.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -4.67x^0$$

let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{g} g(x) = +3.61x^{+1}$$

and let  $k$  be the function specified by the global input-output rule

$$x \xrightarrow{k} k(x) = -0.51x^{+3}$$

find the *local graph* of the function  $f + g + k$  near 0.

**8-17.** Let  $f$  be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -20.56x^0$$

let  $g$  be the function specified by the global input-output rule

$$x \xrightarrow{g} g(x) = +3.61x^{+2}$$

and let  $k$  be the function specified by the global input-output rule

$$x \xrightarrow{k} k(x) = +1.61x^{+3}$$

find the *local graph* of the function  $f + g + k$  near 0.