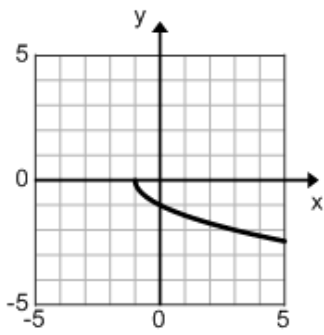
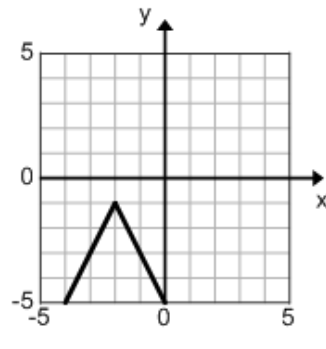
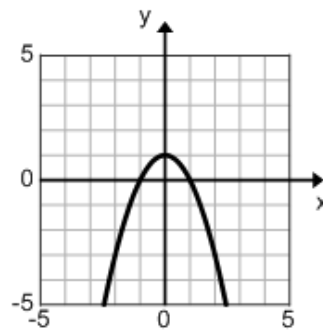
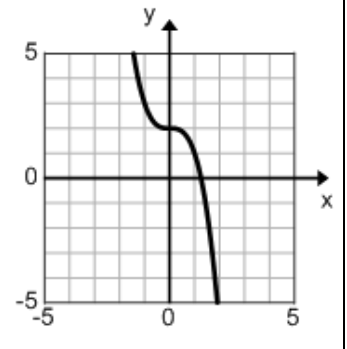
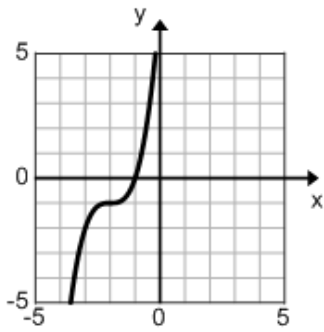
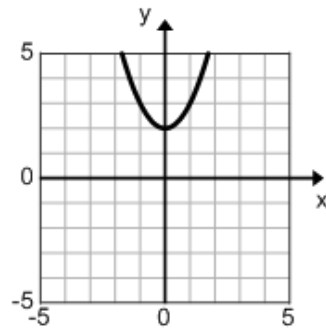
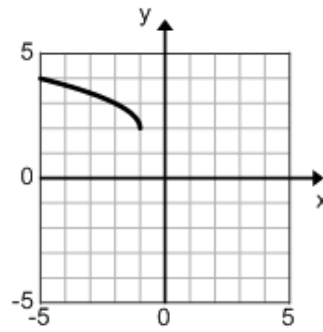
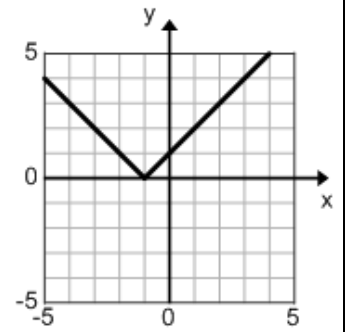
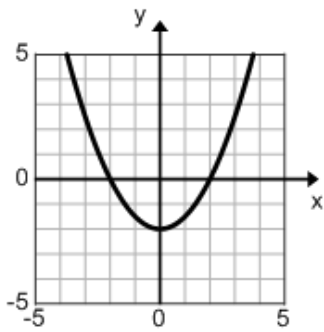
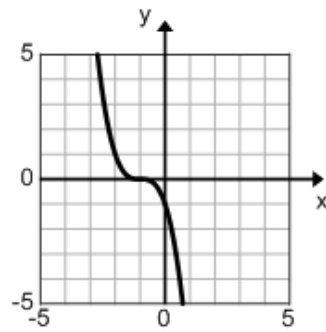
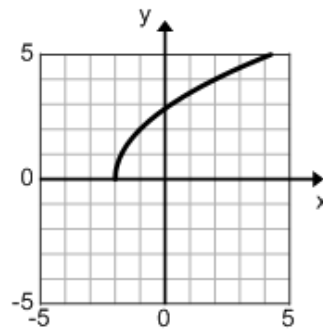
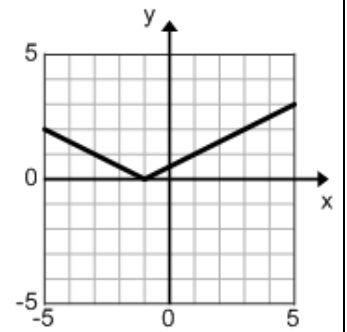
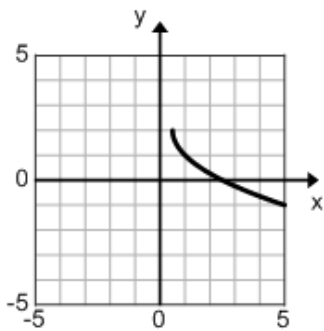
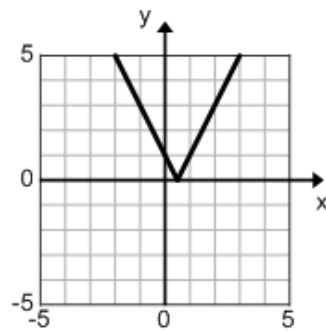
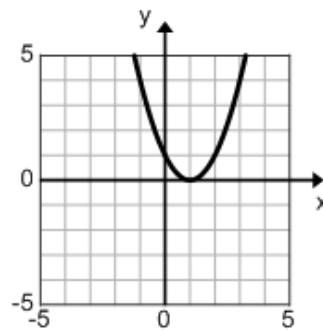
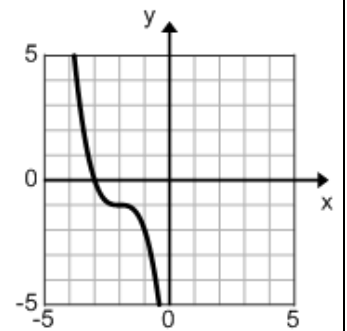


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|-------------------------------------|--|--|---|
| E1 $f(x) = x^2 + 2$ | E2 $f(x) = (x - 1)^2$ | E3 $f(x) = -x^2 + 1$ | E4 $f(x) = \frac{1}{2}x^2 - 2$ |
| E5 $f(x) = x + 1 $ | E6 $f(x) = 2(x - 1) $ | E7 $f(x) = \frac{1}{2} x + 1 $ | E8 $f(x) = -2 x + 2 - 1$ |
| E9 $f(x) = -\sqrt{x + 1}$ | E10 $f(x) = \sqrt{-(x + 1)} + 2$ | E11 $f(x) = 2\sqrt{x + 2}$ | E12 $f(x) = -\sqrt{2(x - 1)} + 2$ |
| E13 $f(x) = -x^3 + 2$ | E14 $f(x) = (x + 2)^3 - 1$ | E15 $f(x) = -(x + 2)^3 - 1$ | E16 $f(x) = (-(x + 1))^3$ |

| | | | |
|---|--|---|--|
| D1 <ul style="list-style-type: none"> • Reflection across y-axis • Horizontal Shift: Left 1 | D2 <ul style="list-style-type: none"> • Vertical Stretch: 2 • Horizontal Shift: Left 2 | D3 <ul style="list-style-type: none"> • Horizontal Shift: Right 1 | D4 <ul style="list-style-type: none"> • Vertical Shift: Up 2 |
| D5 <ul style="list-style-type: none"> • Reflection across x-axis • Horizontal Compression: $\frac{1}{2}$ • Horizontal Shift: Right 1 • Vertical Shift: Up 2 | D6 <ul style="list-style-type: none"> • Horizontal Shift: Left 2 • Vertical Shift: Down 1 | D7 <ul style="list-style-type: none"> • Reflection across x-axis • Vertical Shift: Up 1 | D8 <ul style="list-style-type: none"> • Reflection across x-axis • Horizontal Shift: Left 1 |
| D9 <ul style="list-style-type: none"> • Vertical Compression: $\frac{1}{2}$ • Vertical Shift: Down 2 | D10 <ul style="list-style-type: none"> • Reflection across y-axis • Horizontal Shift: Right 1 • Vertical Shift: Up 2 | D11 <ul style="list-style-type: none"> • Horizontal Compression: $\frac{1}{2}$ • Horizontal Shift: Right 1 | D12 <ul style="list-style-type: none"> • Vertical Compression: $\frac{1}{2}$ • Horizontal Shift: Left 1 |
| D13 <ul style="list-style-type: none"> • Reflection across x-axis • Horizontal Shift: Left 2 • Vertical Shift: Down 1 | D14 <ul style="list-style-type: none"> • Horizontal Shift: Left 1 | D15 <ul style="list-style-type: none"> • Reflection across x-axis • Vertical Shift: Up 2 | D16 <ul style="list-style-type: none"> • Reflection across x-axis • Vertical Stretch: 2 • Horizontal Shift: Left 2 • Vertical Shift: Down 1 |

G1**G2****G3****G4****G5****G6****G7****G8****G9****G10****G11****G12****G13****G14****G15****G16**

| | | | |
|------------------------------|------------------------------------|-------------------------------------|----------------------------------|
| N1 $f(2(x - 1))$ | N2 $-f(x + 1)$ | N3 $2f(x + 2)$ | N4 $f(-(x + 1)) + 2$ |
| N5 $f(x) + 2$ | N6 $\frac{1}{2}f(x) - 2$ | N7 $-2f(x + 2) - 1$ | N8 $-f(x) + 1$ |
| N9 $-f(x) + 2$ | N10 $f(x - 1)$ | N11 $\frac{1}{2}f(x + 1)$ | N12 $-f(2(x - 1)) + 2$ |
| N13 $f(x + 2) - 1$ | N14 $f(-(x + 1))$ | N15 $f(x + 1)$ | N16 $-f(x + 2) - 1$ |