## For practise only. Not to be submitted.

1. Simplify each of the following.
(a) $|7-3|$
(b) $|3-7|$
(c) $|-3-7|$
(d) $|8|-|-1|$
(e) $|-2 \cdot 4|$
(f) $-2 \cdot|4|$
(g) $\frac{5}{|-5|}$
(h) $\frac{|-3+3|}{3}$
(i) $\frac{|-3|+|3|}{3}$
2. Given $f(x)=|6-3 x|-2$, compute each of the following.
(a) $f(2)$
(b) $f\left(\frac{11}{3}\right)$
(c) $f(-1)$
3. Given $g(x)=\left|3 x-\frac{5}{2}\right| x| |$, compute each of the following.
(a) $g(4)$
(b) $g(-4)$
(c) $g(-1)$
4. Write each of the following as a piecewise function.
(a) $f(x)=\left|\frac{1}{3} x\right|$
(b) $y=\frac{|4 x|+6}{2}$
(c) $f(x)=2-|x|$
5. Solve each of the following inequalities. Give the solution as an interval.
(a) $-4 x>9$
(b) $4-3 x \leq x+8$
(c) $2 \geq \frac{1}{3}(6-x)$
