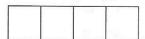
Exercise Set 5 (Calculator)

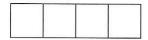
10

If $\frac{x}{5} - \frac{3}{x} = 2$, what is the value of $x^2 - 10x$?



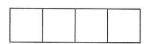
11

For how many positive integer values of k is $\frac{1}{10k} > 0.001$?



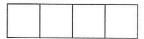
12

If $g(x) = x^2 - 9x + 18$ and $h(x) = \frac{g(x)}{x^2 + 3}$, what is the value of h(9)?



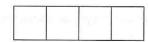
13

If $\frac{1}{x+1} + \frac{1}{x-1} = 9$, what is the value of $\frac{9x}{x^2-1}$?



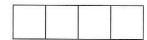
14

If $\frac{c}{c-1} \div \frac{c+1}{2c} = \frac{10}{c^2-1}$, what is the value of c^2 ?



15

If $\frac{4x^2+1}{2x+1} = 2x-1 + \frac{a}{2x+1}$ for all values of x, what is the value of a?



16

Which of the following is equivalent to $\frac{1}{b} - \frac{b^2}{2}$ for all positive values of b?

- A) $\frac{b^2-1}{2-b}$
- B) $\frac{b^2-1}{2b}$
- $C) \quad \frac{b^3 2}{2b}$
- $D) \quad \frac{2-b^3}{2b}$