

$f(2) = 2$	$f(-1) \neq 0$	$f\left(\frac{1}{2}\right) \neq 0$	When $f(x)$ is divided by $(x+1)$ , the remainder is 2
$f\left(-\frac{1}{2}\right) = 2$	$f(1) = 2$	$(x+1)$ is not a factor of $f(x)$	$f(-1) = 0$
$f\left(\frac{1}{2}\right) = 0$	When $f(x)$ is divided by $(x-2)$ , the remainder is 2	$f(2) = 0$	$f(-2) = 0$
$f(-1) = 2$	$f(1) = 0$	When $f(x)$ is divided by $(2x-1)$ , the remainder is 2	When $f(x)$ is divided by $(2x+1)$ , the remainder is 2

$(x + 1)$ is a factor of $f(x)$	$f\left(\frac{1}{2}\right) = 2$	$(x + 2)$ is a factor of $f(x)$	$f(-2) = 2$
$(2x + 1)$ is a factor of $f(x)$	$f(1) \neq 0$	$(x - 1)$ is a factor of $f(x)$	$(x - 2)$ is a factor of $f(x)$
When $f(x)$ is divided by $(x - 1)$ , the remainder is 2	$(2x - 1)$ is not a factor of $f(x)$	$(x - 1)$ is not a factor of $f(x)$	<b>Finish</b>
When $f(x)$ is divided by $(x + 2)$ , the remainder is 2	$f\left(-\frac{1}{2}\right) = 0$	<b>Start</b>	$(2x - 1)$ is a factor of $f(x)$