Let f(x) be a polynomial of degree 3 such that $f(k) = -\dfrac{2}{k}$ for k=2, 3, 4, 5. Then the value of 52-10f(10) is equal to _ _ _ _ .	We have, kf(k)+2 = 0 for k = 2, 3, 4, 5
	Let g(k) = kf(k)+2 where g(x) is a polynomial of degree 4.
	g(x) = a(x-2)(x-3)(x-4)(x-5) = xf(x)+2
	To find a, let us put x = 0.
	g(0) = a(-2)(-3)(-4)(-5) = 0+2
	So, $a = \dfrac{1}{60}$
	Now,
	$$xf(x) + 2 = \dfrac{1}{60}(x-2)(x-3)(x-4)(x-5)$$
	$$\therefore 10f(10) + 2 = \dfrac{1}{60} \times 8 \times 7 \times 6 \times 5 = 28$$
[Based on JEE Main 2021] [123IITJEE]	$\therefore 52 - 10f(10) = 26$