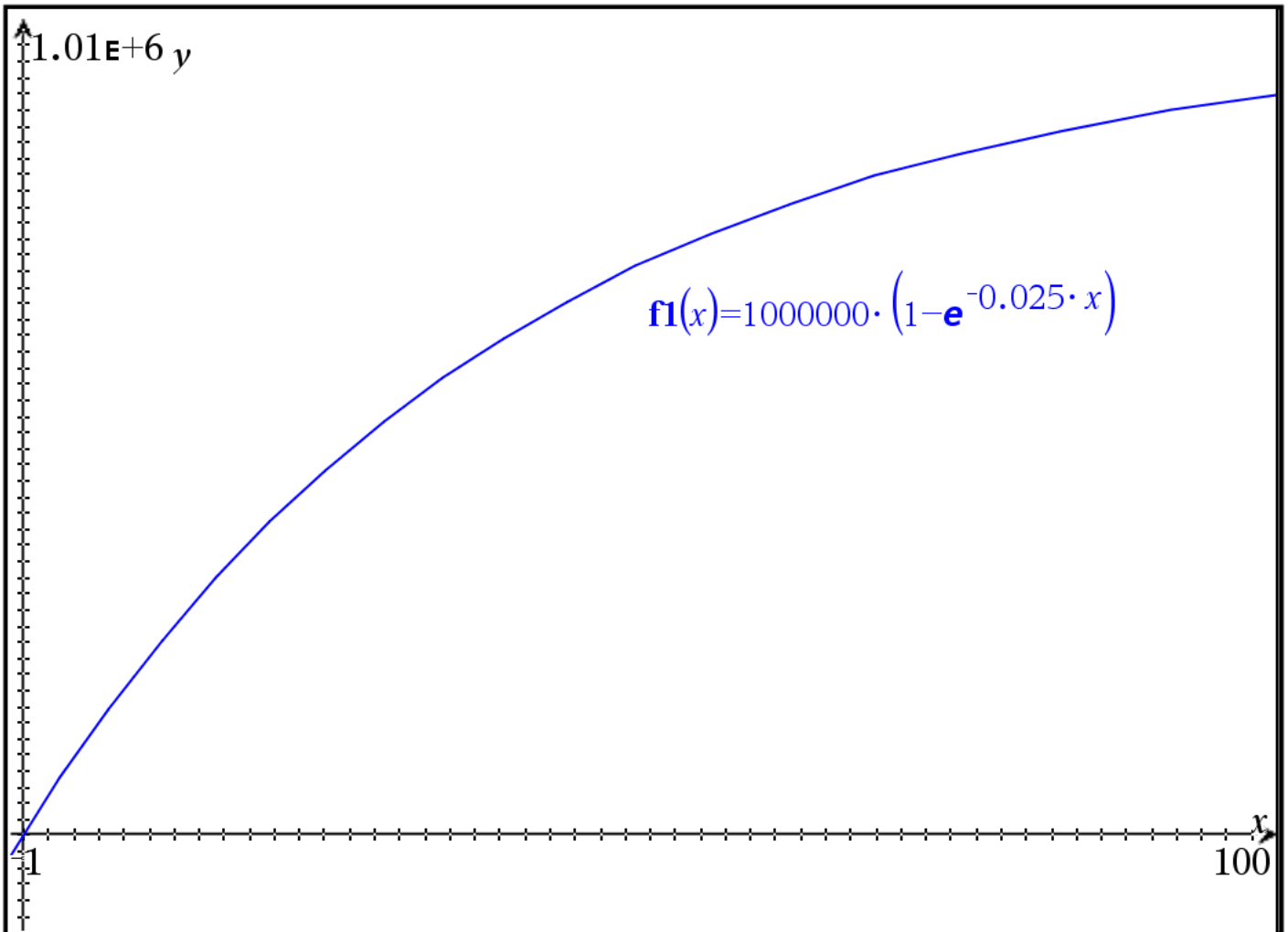
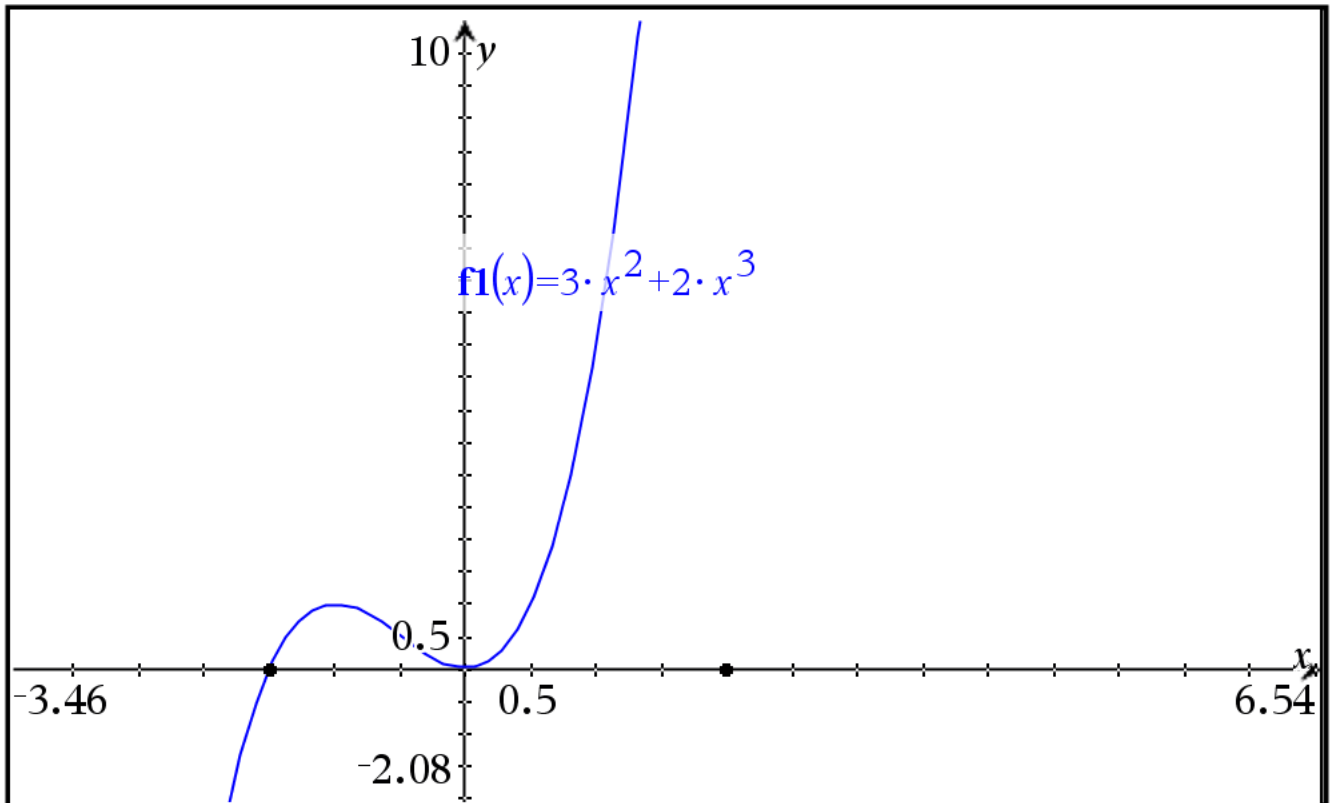


B1



$f1(0)$	0.
$f1(50)$	713495.
$\lim_{x \rightarrow \infty} (f1(x))$	1.E6
$ff1(x) := \frac{d}{dx}(f1(x))$	Done
$ff1(20)$	15163.3

$f1(0)$	0
$\text{solve}(f1(x)=0,x)$	$x = \frac{-3}{2}$ or $x=0$
$ff1(x) := \frac{d}{dx}(f1(x))$	Done
$ff1(x)$	$6 \cdot x^2 + 6 \cdot x$
$\text{solve}(ff1(x) \geq 0, x)$	$x \leq -1$ or $x \geq 0$
$f1(0)$	0
$f1(-1)$	1
$\int_{\frac{-3}{2}}^2 f1(x) dx$	$\frac{539}{32}$
$\int_{\frac{-3}{2}}^2 f1(x) dx$	16.8438
$\square$	

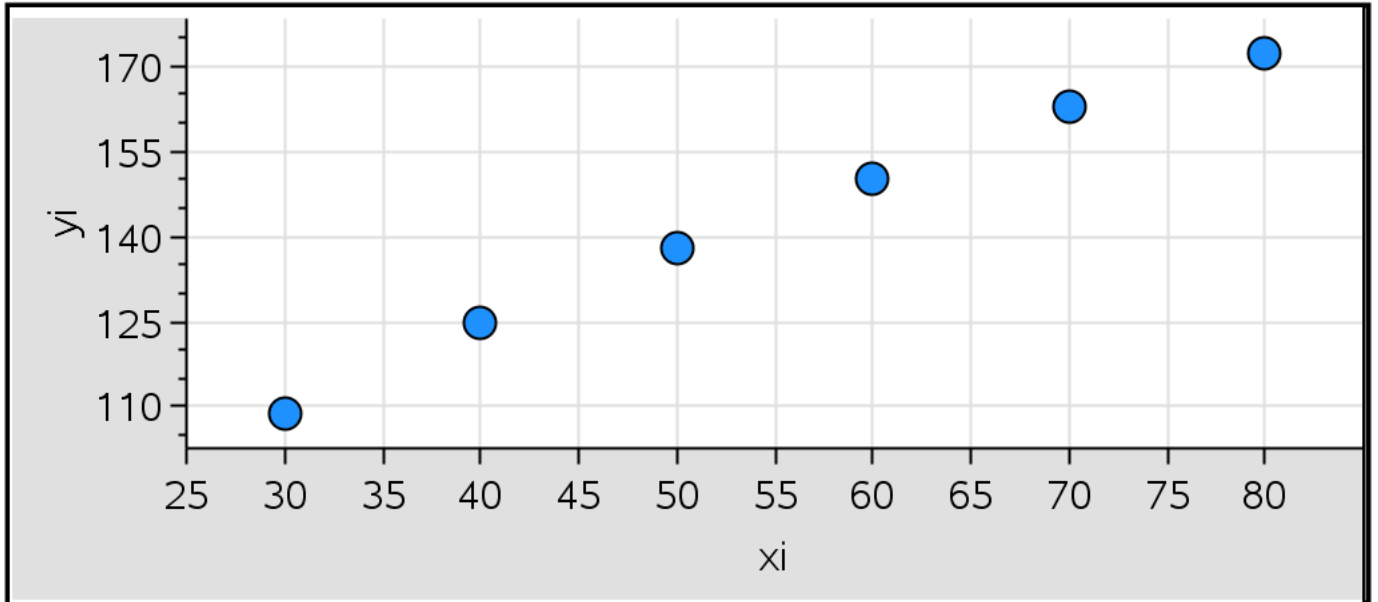


B3

<code>binomCdf(10,0.0495,0,1)</code>	0.91535
<code>binomCdf(10,0.915,5,5)</code>	0.000717
<code>binomCdf(5,0.915,5,5)</code>	0.641365

□

B4



	A xi	B yi	C	D	E	F
=					=LinRegM	
1	30	109		Title	Linear R...	
2	40	125		RegEqn	$m*x+b$	
3	50	138		m	1.26	
4	60	150		b	73.5333	
5	70	163		$r^2$	0.994084	
6	80	172		r	0.997038	
7				Resid	{-2.3333...	
A1	30					

	A xi1	B yi1	C	D	E	F
=					=TwoVar()	
1	30	109		Title	Two-Va...	
2	40	125		$\bar{x}$	40.	
3	50	138		$\Sigma x$	120.	
4				$\Sigma x^2$	5000.	
5				$s_x := s_{n-...}$	10.	
6				$\sigma_x := \sigma_{n...}$	8.16497	
7				n	3.	
8				$\bar{y}$	124.	
A1	30					

	A xi2	B yi2	C	D	E
=					=TwoVar()
1	60	150		Title	Two-Va...
2	70	163		$\bar{x}$	70.
3	80	172		$\Sigma X$	210.
4				$\Sigma X^2$	14900.
5				$s_X := s_{n-...}$	10.
6				$\sigma_X := \sigma_{n...}$	8.16497
7				n	3.
8				$\bar{y}$	161.667

C1

$f(x) := 1.26 \cdot x + 73.53$	Done
$\text{solve}(f(x)=140, x)$	$x=52.754$
$\text{solve}\left(\begin{cases} m \cdot 40 + p = 124 \\ m \cdot 70 + p = 162 \end{cases}, \{m, p\}\right)$	$m=1.26667$ and $p=73.3333$
$1.27 \cdot 31 + 73.33$	112.7
$f(31)$	112.59