

$p1 := 0.1;$ 0.1 **(1)**

$p2 := 0.3;$ 0.3 **(2)**

$p3 := 0.5;$ 0.5 **(3)**

$f1 := \text{binomial}(100, x) \cdot p1 \cdot x \cdot (1 - p1) \cdot (100 - x); \text{sig1} := \text{sqrt}(100 \cdot p1 \cdot (1 - p1));$
 $\text{binomial}(100, x) 0.1^x 0.9^{100-x}$
3.000000000 **(4)**

$f2 := \text{binomial}(100, x) \cdot p2 \cdot x \cdot (1 - p2) \cdot (100 - x); \text{sig2} := \text{sqrt}(100 \cdot p2 \cdot (1 - p2));$
 $\text{binomial}(100, x) 0.3^x 0.7^{100-x}$
4.582575695 **(5)**

$f3 := \text{binomial}(100, x) \cdot p3 \cdot x \cdot (1 - p3) \cdot (100 - x); \text{sig3} := \text{sqrt}(100 \cdot p3 \cdot (1 - p3));$
 $\text{binomial}(100, x) 0.5^x 0.5^{100-x}$
5.000000000 **(6)**

$\text{with}(\text{plots}); \text{setcolors}(["Red", "Red", "Red"]); \text{plot}(\{f1, f2, f3\}, x=0..80);$
 $[\text{animate}, \text{animate3d}, \text{animatecurve}, \text{arrow}, \text{changecoords}, \text{complexplot}, \text{complexplot3d},$
 $\text{conformal}, \text{conformal3d}, \text{contourplot}, \text{contourplot3d}, \text{coordplot}, \text{coordplot3d}, \text{densityplot},$
 $\text{display}, \text{dualaxisplot}, \text{fieldplot}, \text{fieldplot3d}, \text{gradplot}, \text{gradplot3d}, \text{graphplot3d}, \text{implicitplot},$
 $\text{implicitplot3d}, \text{inequal}, \text{interactive}, \text{interactiveparams}, \text{intersectplot}, \text{listcontplot},$
 $\text{listcontplot3d}, \text{listdensityplot}, \text{listplot}, \text{listplot3d}, \text{loglogplot}, \text{logplot}, \text{matrixplot}, \text{multiple},$
 $\text{odeplot}, \text{pareto}, \text{plotcompare}, \text{pointplot}, \text{pointplot3d}, \text{polarplot}, \text{polygonplot}, \text{polygonplot3d},$
 $\text{polyhedra_supported}, \text{polyhedraplot}, \text{rootlocus}, \text{semilogplot}, \text{setcolors}, \text{setoptions},$
 $\text{setoptions3d}, \text{spacecurve}, \text{sparsematrixplot}, \text{surfdata}, \text{textplot}, \text{textplot3d}, \text{tubeplot}]$
 $["Red", "Red", "Red"]$

