Applications	
11	(x+h, llx+h)
	2013
	درم د
/ /	ad
(2, 1/2	
درے کی کی	$\frac{1}{4x} = L_{11} + \frac{L(x+h) - L(x)}{1} = \frac{1}{2} - \frac{1}{2}$
Shope	= m = dy
,	d'x
	m = 42-41
	スと - メ 1
	$y = m \times + c$
	m = Timo
Fud	slipe to curve y = x + 3x
when	x = 1.
	y = 2 ² +32
	$\frac{dy}{dx} = 2x + 3$
	m = 2(1) + 3 = 5
4	
Find	Sligne to $y = x^2 - 9x + 1$
when	z = -2.
	dy = 2x-9
	d2
	m = 2(-2) - 9 = -13

target to y = x 2-52+1 Find z = 2. $d_{3} = 2x-5$ when x = 2 $m = 2(2) - \zeta = -1$ Tangent = line $y-y_1 = n(x-x_1)$ $\begin{array}{c} \chi = 2 \\ y = x^2 - 5x + 1 \end{array}$ m = -1 y = 4 -10 + 1 = -5 (2.-5) m = 1 y + 5 = -1(x-2) y + 5 = -x + 2x+y=-3.Find tangent to y=x2-7x-3 when x = -1. dy = 22-7 x = -1 m = 2(-1) - 7 = -9x = -1 $y = x^2 - 7x - 3$

y=(-1)2-7(-1)-3=5 y-5=-9(x+1) pont en y = x2 - 7x+3 Find tangent hus a slige whee d 5. $\frac{dy}{dx} = 2x - 7$ 2x - 7 = 5x = 6 $y = 6^2 - 7(6) + 3 = -3$ (6, -3) pont en y = x = 3x+5 Fund tanget is parallel where 72 +2 =8. to $y = x^2 - 3x + 5$ $\frac{dy}{dx} = 2x - 3$ Parellel 7x -2 =8 Same slige

y = -7x +8 m=7 dy = -7 2x-3=-7 $2x = -4 \qquad x = -2$ 4 = (-2) = 3(-2) +5 = 15 (-2,15) Find point on y = 22-7x-3 where target " perpendicular x-54 = 8 $y = 2^2 - 7x - 3$ = dy = 2x - 7x-55 = 8 -5y = -1x+8 Sy = 12-8 9=======







