U3:L2 QUADratics in standard Form

The standard form of a quadratic is...





| | DIRECTION OF OPENING: |
|---|--|
| | COORDINATES OF VERTEX: $(3,7)$ |
| | MAXIMUM OR MINIMUM VALUE: MIN V=7- |
| 20 | EQUATION OF AXIS OF SYMMETRY: |
| | X-INTERCEPTS: NONE |
| | Y-INTERCEPT: Y=25 |
| | DOMAIN AND RANGE: SER |
| | ky<7,yerri |
| | |
| A DF2W02 4 | PP |
| A diver jumps from a 3m springboa | rd with an initial vertical velocity of 6.8 m/s. Her |
| be represented by the function: | er, t seconds, after leaving the diving board can |
| h(t) = h(t) | $1.9t^2 \pm 6.8t \pm 3$ |
| (t) = (t) | $-4.9a^2 + 6.82 + 3$ |
| a) Graph the function. | epresent? |
| | where she starts |
| N=7 = (. | OO Concinding of C |
| | on springwoord |
| c) What is the maximum height | t of the diver? When does she reach that |
| | Vertex |
| (0.694, 5.359) | 1) $5.4m$ |
| | ., |
| d) How long is the diver in the a | air? |
| $\left(\left \mathcal{A} \right\rangle \right)$ | x intercept |
| $(\circ T, O)$ | 1.74 seconds |
| e) What is the height of the div | er 0.6 seconds after leaving the board? |
| 14652111 | |
| (J) J0 J161 | 5 516m |
| - / | |

Joe Bob is making an ice rink in his yard. He has 100m of boards to use as perimeter.

a) Write a quadratic function in standard form to represent the area of the

