1) 14.1

|  |  |
| --- | --- |
|  | Stress concentration Factor is 3 |

1) 14.2

|  |  |
| --- | --- |
|  | **A)**      Stress concentration Factor is 2.75  **B)**      Stress concentration Factor is 2.01 |

2) 14.4

|  |  |
| --- | --- |
|  | A)  Stress concentration Factor is 3.5  B)  Stress concentration Factor is 3.25  C)  Stress concentration Factor is 2.00 |

2) 14.12

|  |  |
| --- | --- |
| Use bending and the Torsional Shear then find the mores circle. |  |

3) 14.8

|  |  |
| --- | --- |
|  | A) Max Tensile Stress:= 15 MPa  B) Max Compressive Stress:= 205 MPa |

4) 15.6

|  |  |
| --- | --- |
| Stress Intensity Factors ***K***  F = sigma \* Area |  |

5) 15.17

|  |  |
| --- | --- |
| Max moment is at the mid of the beam  F != sigma \*Area =>(use the table equations)  M=(P\*L)/4 |  |