Answer Form

Theoretical Problem No. 3

Why are stars so large?

1) A first, classic estimate of the temperature at the center of the stars.

1a		1.5

2) Finding that the previous temperature estimate is wrong.

2a		0.5

2b		0.5

2c		0.5

2d		0.5

3) A quantum mechanical estimate of the temperature at the center of the stars

3a		1.0

3b		0.5

3c		0.5

4) The mass/radius ratio of the stars.

4a		0.5

5) The mass and radius of the smallest star.

5a		0.5

5b		0.5

5c		1.5

5d		0.5

5e		0.5

6) Fusing helium nuclei in older stars.

6a		0.5