Problem 3.1

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3 points possible (ungraded)

Evaluate the integrals (use pi for π ans sqrt(#) for $\sqrt{\#}$)

1) $\int_{-\infty}^{\infty} \frac{x^4}{1+x^6} dx$

2) $\int_0^{2\pi} \frac{\cos 2\theta}{2+\cos\theta} d\theta$

$$\int_{-\infty}^{\infty} \frac{dx}{(x^2+a^2)(x^2+b^2)^2} \text{ for real } a,\ b = \frac{\square + 2\square}{2|a|\square(\square + |b|}$$

	$\|a\|$	$\|b\|$	$\|a\|^2$	$\|b\|^2$	$\|a\|^3$	$\|b\|^3$	

Submit You have used 0 of 6 attempts